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# Human/Machine Interfaces

Magelis™ Industrial PC, Edge Box  
and Display

Catalog

February 2019



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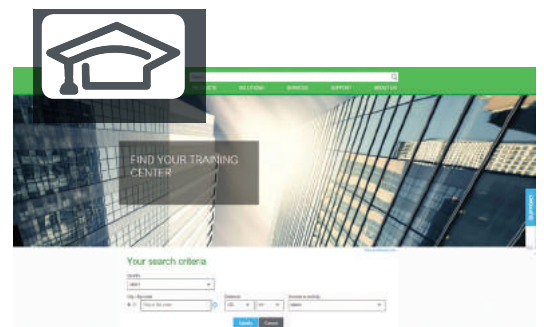
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## Magelis™ Industrial PC, Edge Box and Displays

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**Selection guide of Magelis Industrial PC, Edge Box and Display . . . . . page 1/6**

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### Magelis iPC and Edge Box at Edge Control level

EcoStruxure is Schneider Electric's innovative IoT architecture addressing the needs of automation applications for a wide range of industries.

The new Magelis Edge Box meets IIoT challenges at the Edge Control level by enabling secured communication from connected products on the shop floor to the required software and applications on the top floor.

This provides improved profitability and new business opportunities, through enhanced asset performance for more efficient operation and maintenance of capital assets. Magelis iPC and Magelis Edge Box offer smart application design and engineering to leverage asset performance with end-to-end cybersecurity.



### Smart design and engineering



#### Configurable hardware

- Millions of possible combinations
- 12 main units, making 3x IIoT Edge Box, 6x Box PC, 36x Panel PC or Thin client, etc.
- Dual Ethernet, wireless, choice of memory, displays, storage, and extensions, etc.
- Up to 7 displays can be connected remotely over a maximum distance of 400 m/1,312 ft

#### Versatile Edge Control software

- Open operating system for any software (HMI, EcoStruxure Machine SCADA Expert, engineering and maintenance tools, thin clients, IT/OT connections, etc.)
- For engineering by automation experts

**Benefits**

- Reduced implementation time
- Best-fit application
- Consistency of operator workstations
- Designed for fast and easy maintenance/replacement

### Cybersecurity

#### ISA/IEC-62443 approved

- Designed according to standards (analyses, threat model, user document, etc.)
- Hardware encryption with TPM
- Secured password boot and operating system settings
- McAfee whitelisting
- Node-RED parallel wiring model does not interfere with automation
- IT infrastructure security
- EcoStruxure Secure Connect Advisor for remote connections

**Benefits**

- System security helps to protect data and assets
- Business continuity

**+ Simplify your machine interfaces with intuitive industrial PCs**



**Help me choose**

Click to open the Product Selector and select the right product.



### Asset performance

#### Industrial design

- No rotating parts, 0-55°C/32-131 °F operating temperature
- Industrial certifications including hazardous locations and marine
- Conformal coating, UPS
- 11+ years of availability and 4 years of repair service

#### IIoT wiring with Node-RED

- Shared operational data with IT and Cloud applications
- Analytics for business enablers
- Secondary sensing connection

#### Benefits

- Leverage crew reactivity for business maximization
- Asset reliability and optimization
- Predictive maintenance with advanced analytics
- Control system sustainability

### Magelis iPC and Edge Box with Node-RED for IIoT wiring

Magelis iPC and Edge Box runs Node-RED to wire devices on the Industrial Internet of Things. Node-RED is a simple, open source graphical programming tool for designing the communication data flow from OT to IT.

The Node-RED community count thousands of nodes ready-to use, to get data from connected products, manage the communication at the Edge Box level, and connect to the IT systems.

Schneider Electric provides some nodes that are tested, validated, and supported to run with Node-RED on the Magelis iPC and Edge Box.

For instance, the Node-RED wiring can be made up of Modbus or UMAs nodes to get data from connected products to EcoStruxure Machine Advisor, Schneider AVEVA Insight Cloud application, or other IT or Cloud application, thus dynamically sharing business information from the shop floor to leverage asset performance.

### Magelis iPC and Edge Box family

As a global specialist in industrial automation, Schneider Electric offers integrated solutions across multiple markets. Magelis iPC provides solutions to applications that need to run on Windows or Linux operating systems in industrial environments. They are a comprehensive range of intuitive Magelis Edge Box and industrial PCs for improved productivity to enhance operator experience.

### Magelis Edge Box

Magelis HMIBSC/HMIBMI/HMIBMO can be used for IIoT at the edge of EcoStruxure for direct connection to Cloud applications (running Node-RED to wire from OT to IT) with enhanced cybersecurity by design.

#### Magelis HMIBSC

- 2 Gigabit Ethernet, 1x RS-232/422/485, 2x USBs, 1x display port, 1x HDMI
- Qualcomm ARM Cortex-A53 quad-core fanless processor
- 1x full-size mini PCIe slot with optional interface, 1x M.2 slot for extension, 1x SD card slot
- Node-RED

#### Magelis HMIBMI Basic

- 2 Gigabit Ethernet, 1x RS-232/422/485, 2x USBs, 1x display port
- Intel Atom Apollo Lake E3930 dual-core fanless processor
- 1x full-size mini PCIe slot with optional interface
- Node-RED, default or to be installed depending on the model

#### Magelis HMIBMO Optimized

- 2 Gigabit i210 Ethernet, 1x RS-232/422/485, 4x USBs, 2x display ports
- Intel Atom Apollo Lake E3930 dual-core fanless processor
- 1x full-size mini PCIe slot with optional interface
- Node-RED, default or to be installed depending on the model



# Industrial PCs

Magelis iPC and Magelis Edge Box  
Magelis Modular Box PCs, Magelis Modular Display,  
Magelis iDisplay

1



## Magelis Modular Box PCs

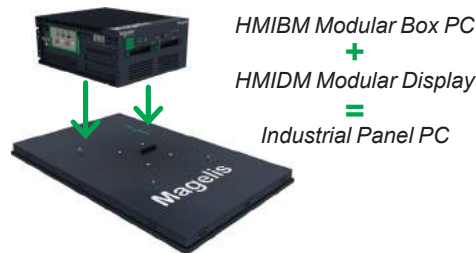
Magelis HMIBMU Modular Box PC cater to some of the most demanding field applications running on a Windows operating system platform. They make the complete Panel PC when mounted with Magelis HMIDM Modular Displays. Depending on the model, they are conformal coated, and cULus certified for industrial marine, hazardous location and marine. They can run also Trusted Platform Module (TPM) for cybersecured hardware encryption.

### Magelis HMIBMU Modular Box PC (Universal/Performance)

- 2 Gigabit Ethernet, 1x RS-232/422/485, 4x USBs, 2x display ports, 3x antenna connectors
- Intel Celeron 2980U dual-core (Universal)/Intel Core i7-4650U (Performance) fanless processors
- 2x full-size mini PCIe expansion slots and 2x optional PCI/PCIe card slots
- 1x CFAST card slot, 2x SSD/HDD hot-swappable slot and optional battery backup

## Magelis Modular Display

Magelis HMIDM Modular Displays are the companion of Magelis HMIBMU Modular Box PCs. They can be directly mounted on to the Box PC or remotely via cables. This modularity not only allows multiple variations with reduced inventories, it also facilitates maintenance. The Box PC or the Display can be easily replaced without changing the complete Panel PC unit.



### Magelis HMIDM Modular Display

- 4:3 12" and 15" single-touch resistive with front USB
- 16:9 12"/15"/19"/22" multi-touch projected capacitive technology, 7H hardness, anti-scratch
- IP66, Nema 4X indoor front panel

With Magelis HMIDAD Display Adapter, the Magelis Modular Display can be used as a:

- Local display (over a maximum distance of 5 m/16.40 ft)
- Remote display (up to 4 daisy chain displays with same screen definition, and over a maximum distance of 100 m/328 ft for the 1<sup>st</sup> display to 400 m/1,312 ft for the 4<sup>th</sup> display)



## Magelis iDisplay

Magelis HMIDID iDisplays are robust monitors with an excellent screen size/dimensions ratio and can be used in conjunction with industrial PCs. They have the same cut-out dimensions as Magelis Panel PCs and Magelis HMI operator panels, which makes it easy to upgrade installations.

### Magelis HMIDID iDisplay

- 12" and 15" size color TFT LCDs
- 1x USB on front panel, 1x DVI-D video, 1x USB
- IP67/66 and Nema 4X front screen
- Industrial certifications (hazardous location and marine)



New digital technologies are opening up unprecedented opportunities for efficiency and productivity in the industry



## Magelis S-Panel and Enclosed Panel PCs

Magelis HMIPS S-Panel PCs are simple and compact all-in-one hardware, with fanless Intel CPUs, HDD/SSD storage drive slots, and mini PCIe slots for optional interfaces.

### Magelis HMIPSO S-Panel PC (Optimized)

- Intel Atom E3827 dual-core fanless processor, 4 GB DDR3 RAM
- Expansion kit allowing 1x SATA HDD/SSD slot and 1x mini PCIe slot
- W10" and W15" multi-touch projected capacitive technology screens

### Magelis HMIPSP S-Panel PC (Performance)

- Intel i3-4010U dual-core fanless processor, 8 GB DDR3 RAM
- 1x full-size mini PCIe slot and 1x optional interface slot
- W15" and W19" HD multi-touch projected capacitive technology screens

Magelis Enclosed Panel PCs are completely enclosed PCs with IP65 protection on 6 faces and M12 connectors. They are ready to be directly installed on a VESA arm, without any additional enclosure.

### Magelis HMIPEP Enclosed Panel PC (Performance)

- Intel i3-4010U dual-core fanless processor, 8 GB DDR3 RAM
- W19" multi-touch projected capacitive technology screen



## Magelis Rack PCs

Magelis HMIR Rack PCs offer a one-stop shop for a complete plant solution that has been tested and validated by Schneider Electric, along with EcoStruxure software Citect SCADA and EcoStruxure Hybrid DCS Engineering. Magelis HMIRs can be easily installed in Actassi 19" enclosures and connected to Magelis iDisplay monitors.

### Magelis HMIR<sup>o</sup> Rack PC 2U (Optimized) (1)

- Intel Core G540 or G850 processor, 2 GB RAM
- 2x PCI Express (x8) + 1x PCI
- 2 Gigabit Ethernet, 2x RS-232 (+ 4 optional), 6x USB, 1x VGA, 1x DVI
- 1x internal SATA3 slot and 2x external SATA2 trays, 1x DVD-RW drive

### Magelis HMIRSU Rack PC 2U (Universal) (1)

- Intel Core i3-2120 processor, 4 GB RAM
- 2x PCI Express (x16) + 1x PCI
- 2 Gigabit Ethernet, 2x RS-232 (+ 4x optional), 6x USB, 1x VGA, 1x DVI, and 1x display port

### Magelis HMIRSP Rack PC 4U (Performance) (1)

- Intel Xeon E3-1225 processor, 4 to 16 GB RAM
- 4x PCI Express (x16) + 3x PCI
- 2 Gigabit Ethernet, 2x RS-232 (+ 4x optional), 6x USB, 1x VGA, 1x DVI
- Dedicated models with Windows Server operating systems

## Companion products (2)

EcoStruxure™ Secure Connect Advisor provide a secure connection between remote display units on the work site (via SiteManager Embedded) and computers or smart devices in the office (via LinkManager) over a secure central server (GateManager). With EcoStruxure Machine Secure Connect Advisor, maintenance personnel can access Schneider Electric software and update it remotely and securely via the Magelis iPC and Magelis Edge Box, and other connected devices as if they were on site. Troubleshooting and repair can also be performed remotely upon request.

(1) Rack 2U or 4U is a unit used to measure the height of a device to be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

(2) For more information, please refer to "EcoStruxure Secure Connect Advisor catalog" available in SE.com.



# Industrial PCs

Magelis™ iPCs for automation  
Magelis HMIPS S-Panel PCs and  
HMIPEP Enclosed Panel PC

Type of Magelis iPC

Magelis HMIPS S-Panel PC  
HMIPSO Optimized



Fanless

★★★★★

Mounting type

Panel PC

Display

W10" and W15" multi-touch projected capacitive technology screen

Touch screen

Definition

W10": HD WSVGA, 1280 × 800 pixels  
W15": HD WFXGA, 1366 × 768 pixels

Front protection

IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch

CPU

Processor

Intel® Atom E3827 dual-core (1.75 GHz)

Expansion slots

1x optional full-size mini PCIe slot with optional interface slot (1)

Storage

CFast card ≥ 32 GB, or  
SSD flash disk ≥ 128 GB with 1.5 million hours MTBF (1), or  
HDD hard disk ≥ 500 GB Enterprise 24/7 (1)

RAM

4 GB (not user-expandable)

Hot-swap RAID HDD and battery backup

–

Operating system

None, or WES 7 Premium SP1 (64-bit), or Windows® 7 Ultimate SP1 (64-bit Multi-language) (2), or Windows 8.1 Industry (64-bit Multi-language) (2), or Windows 10 IoT Enterprise (64-bit Multi-language)

Supply voltage

24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSOMAC1.

Standards and certifications

CE, cULus (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)

Software

EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Machine SCADA Expert Run Time (4), Citect SCADA DVD (5), EcoStruxure Secure Connect Advisor (6)

References

**HMIPSO•552D1•01, HMIPSO•752D1•01**

Pages

2/2 and 2/3

Configured-To-Order

See configured Magelis S-Panel PC on page 2/23

(1) With HMIYPADPSOSTO1 expansion kit for HMIPSO allowing 1 HDD/SSD slot and 1 mini PCIe slot.  
(2) Windows 8.1 requires user activation.  
(3) To be installed and activated by unlimited license HMIRTCWZLSPAZZ (Digital) or HMIRTCWZLSPMZZ (Paper).

Magelis HMIPS S-Panel PC  
HMIPSP Performance

Magelis HMIPEP Enclosed Panel PC  
HMIPEP Performance



★★★★★

★★★★★

Panel PC

Enclosed PC

W15" and W19" multi-touch projected capacitive technology screen

W19" multi-touch projected capacitive technology screen

HD WFXGA, 1366 × 768 pixels

IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch

IP66 on all 6 faces, NEMA 4X indoor, and 7H hardness anti-scratch

Intel Core™ i3-4010U dual-core 4<sup>th</sup> generation (1.7 GHz)

1x full-size mini PCIe slot with optional interface slot

1x full-size mini PCIe slot

CFast card ≥ 32 GB, or  
SSD flash disk ≥ 128 GB or ≥ 256 GB with 1.5 million hours MTBF (1), or  
HDD hard disk ≥ 500 GB Enterprise 24/7 (1)

SSD flash disk ≥ 128 GB with 1.5 million hours MTBF

8 GB (not user-expandable)

–

None, or WES 7 Premium SP1 (64-bit), or Windows® 7 Ultimate SP1 (64-bit Multi-language) (2), or Windows 8.1 Industry (64-bit Multi-language) (2), or Windows 10 IoT Enterprise (64-bit Multi-language)

24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSPMAC1.

CE, cULus (UL IT 60950, CSA IT 60950), RCM, EEcoStruxure Secure Connect Advisor, CCC, FCC (part 15 EMC Class A)

EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Machine SCADA Expert Run Time (4), Citect SCADA DVD (5), EcoStruxure Secure Connect Advisor (6)

**HMIPSP•752D1•01, HMIPSP•952D1•01** | **HMIPEP•952D1•01**

2/4 to 2/7

2/8 and 2/9

See configured Magelis S-Panel PC on page 2/23

(4) With Configured-To-Order Magelis S-Panel PC.  
(5) Citect SCADA DVD is only for installation. Software activation license has to be ordered separately.  
(6) To be installed and activated with subscription.

# Industrial PCs

## Magelis iPCs for automation

### Magelis Edge Box and Modular Box PC

Type of Magelis Edge Box and iPC

Magelis HMIBSC Core Box



<b>Fanless</b>	★★★★★
<b>Mounting</b>	Box PC Panel PC
<b>CPU (1)</b>	Processor Expansion slots, interfaces
	Storage
	RAM
	Battery backup
<b>Operating system (1)</b>	Linux Yocto
<b>Conformal Coating</b>	Only for HMIBSCEA53D1L0A
<b>Supply voltage</b>	12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1
<b>Standards and certifications</b>	CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)
<b>Software, IIoT and Cybersecurity</b>	Secure password boot, Node-RED pre-installed, TPM for Cybersecurity (5)
<b>References</b>	<b>HMIBSCEA53D1L0</b>
<b>Pages</b>	3/2 and 3/3
<b>Configured-To-Order</b>	See configured Magelis Modular Box PC on page 4/32

(1) For mini PCIe card, cellular 4G or 8x analog input interface 0-10 V.  
 (2) For M.2 card, 2x analog input interface 0-10 V / 4-20 mA.  
 (3) To be installed and activated by unlimited license HMIRTCZLSPAZZ (Digital) or HMIRTCZLSPMZZ (Paper).  
 (4) M.2 SSD 1.5 Millions H. MTBF, 3 years manufacturer warranty.  
 (5) Cybersecurity TPM optional module HMIYBINLTPM201 for hardware encryption with Linux.

Magelis HMIBM Modular Box


HMIBMI Basic IIoT			HMIBMO Optimized	
★★★★★			★★★★★	
HMIBM Box wall/book/DIN rail/Flat			HMIBM Box wall/book/ DIN rail/ Flat	
HMIBM Box + associated HMIDM Display (9)			HMIBM Box + associated HMIDM Display (9)	
Intel Atom Apollo Lake E3930 dual-core 1.8 GHz			Intel Atom Apollo Lake E3930 dual-core 1.8 GHz	
1x mini PCIe full slot with optional interface			1x mini PCIe full slot without optional interface	1x mini PCIe full slot with optional interface
64 GB eMMC (soldered)	128 GB eMMC (soldered)	64 GB eMMC (soldered)	64 GB M.2 SSD (4) or None	250 GB M.2 SSD (4) or None
4 GB (not user-expandable)			4 GB (not user-expandable)	4 GB or 8 GB (not user-expandable)
Optional			Optional	
None or Windows 10 IoT Enterprise LTSB-2016 (64-bit)	Windows 10 IoT Enterprise LTSB-2016 (64-bit)	None or Configured-To-Order offer	None or Windows 10 IoT Enterprise LTSB-2016 (64-bit)	None or Windows 10 IoT Enterprise LTSB-2016 (64-bit)
No	No	Yes	No	Only for HMIBMO0A5DDF10A
12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1			12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1	
CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			CE, RCM, EAC, CCC, cULus Industrial Control (UL 61010, CSA 22.2 No.142), cULus Hazardous locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22	
EcoStruxure Operator Terminal Expert (3), EcoStruxure Secure Connect Advisor (10), McAfee whitelisting (6), TPM (8), Secure password boot UEFI, Node-RED pre-installed/to be installed (7) or None	EcoStruxure Operator Terminal Expert (3), EcoStruxure Secure Connect Advisor (10), McAfee whitelisting (6), TPM (8), Secure password boot UEFI, Node-RED to be installed (7) or None	None or Configured-To-Order offer	EcoStruxure Operator Terminal Expert (3), EcoStruxure Machine SCADA Expert Run Time (11), EcoStruxure Secure Connect Advisor (10), McAfee whitelisting (6), TPM (8), Secure password boot UEFI, Node-RED to be installed (7) or None	EcoStruxure Operator Terminal Expert (3), EcoStruxure Machine SCADA Expert Run Time (11), EcoStruxure Secure Connect Advisor (10), McAfee whitelisting (6), TPM (8), Secure password boot UEFI, Node-RED to be installed (7) or None
<b>HMIBMIEA5DD1</b> ●01	<b>HMIBMIEA5DD1</b> 10L	<b>HMIBMI0A5DD1</b> 00A	<b>HMIBMOMA5DD1</b> ●01	<b>HMIBMOMA5DDF1</b> 0●
4/2 and 4/3			4/4 and 4/5	
See configured Magelis Modular Box PC on page 4/32				

(6) McAfee whitelisting to be installed and requires license sticker HMIYYMACWLIOT1.  
 (7) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IIoT Box" option to be selected).  
 (8) Cybersecurity TPM optional module HMIYMINATPM201 for hardware encryption with Windows bit-locker.  
 (9) For more information, refer to page 1/8.  
 (10) To be installed and activated with subscription.  
 (11) Configured-To-Order.


# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

<b>Type of Magelis iPC</b>		<b>Magelis HMIBM Modular Box PC</b>	
		<b>HMIBMU Universal</b>	
			
<b>Fanless</b>		★★★★★ (1)	
<b>Mounting</b>	Box PC Panel PC	HMIBM Box wall/book mounting HMIBM Box + associated HMIDM Display (9)	
<b>CPU (1)</b>	Processor	Intel Celeron® 2980U dual-core (1.6 GHz)	
	Expansion slots	2x full-size mini PCIe with 2x optional interface slots, PCI/PCIe (none or 2)	
	Storage	None, or CFast card ≥ 32 GB, or SSD flash disk ≥ 128 GB with 1.5 million hours MTBF, or HDD hard disk ≥ 500 GB Enterprise 24/7	None or Configured-To-Order offer
	RAM	4 GB (not user-expandable)	8 GB (not user-expandable)
	Hot-swap RAID HDD and battery backup	Optional	
<b>Operating system</b>		None, or WES 7 Premium SP1 (64-bit), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Windows 8.1 Industry (64-bit Multi-language) (2), or Windows 10 IoT Enterprise (64-bit Multi-language)	None or Configured-To-Order offer
<b>Conformal coating</b>		–	Yes
<b>Supply voltage</b>		18...36 V $\overline{\text{---}}$ or 100...240 V $\sim$ with modular power adapter HMIYMMAC1	
<b>Standards and certifications</b>		CE, RCM, EAC, CCC, cULus Industrial Control (UL 61010, CSA 22.2 No. 142), cULus Hazardous locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22	
<b>Software, IIoT and Cybersecurity</b>		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Machine SCADA Expert Run Time (4), Citect SCADA DVD (5), Node-RED to be installed, McAfee whitelisting (6), EcoStruxure Secure Connect Advisor (7), TPM for Cybersecurity (8)	None or Configured-To-Order offer
<b>References</b>		<b>HMIBMU•I29D••01</b>	<b>HMIBMU0I29D•00A</b>
<b>Pages</b>		4/6 and 4/7	
<b>Configured-To-Order</b>		See configured Magelis Modular Box PC on page 4/32	

(1) HMIYBKT4BM11 fan kit is required only when PCI/PCIe expansions cards above 3 W are installed.  
 (2) Windows 8.1 requires user activation.  
 (3) To be installed and activated by unlimited license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).  
 (4) With Configured-To-Order Magelis Modular Box PC.

<b>Magelis HMIBM Modular Box PC</b>	
<b>HMIBMP Performance</b>	
	
<b>★★★★★ (1)</b>	
HMIBM Box wall/book mounting HMIBM Box + associated HMIDM Display (9)	
Intel Core i7-4650U (1.7 GHz low power with turbo boost at 3.3 GHz)	
2x full-size mini PCIe with 2x optional interface slots, PCI/PCIe (none or 2)	
None, or SSD flash disk ≥ 128 GB with 1.5 million hours MTBF, or HDD hard disk ≥ 500 GB Enterprise 24/7	None or Configured-To-Order offer
8 GB (not user-expandable)	16 GB (not user-expandable)
Optional	
None, or WES 7 Premium SP1 (64-bit) (2), or Windows 7 Ultimate SP1 (64-bit Multi-language) (2), or Windows 8.1 Industry (64-bit Multi-language) (2), or Windows 10 IoT Enterprise (64-bit Multi-language)	None or Configured-To-Order offer
–	Yes
18...36 V $\overline{\text{---}}$ or 100...240 V $\sim$ with modular power adapter HMIYMMAC1	
CE, RCM, EAC, CCC, cULus Industrial Control (UL 61010, CSA 22.2 No. 142), cULus Hazardous Locations (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), CE ATEX and IECEx Hazardous Locations 3GD Zone 2/22, Marine DNV (without HDD)	
EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Machine SCADA Expert Run Time (4), Citect SCADA (5), Node-RED to be installed, McAfee whitelisting (6), EcoStruxure Secure Connect Advisor (7), TPM for Cybersecurity (8)	None or Configured-To-Order offer, Node-RED to be installed, McAfee whitelisting (6), EcoStruxure Secure Connect Advisor (7), TPM for Cybersecurity (8)
<b>HMIBMP•I74D••01</b>	<b>HMIBMP0I74D•00A</b>
4/8 and 4/9	
See configured Magelis Modular Box on page 4/32	

(5) Citect SCADA DVD is only for installation. Software activation license has to be ordered separately.  
 (6) McAfee whitelisting to be installed, and requires license sticker HMIYYMACWLIOT1.  
 (7) To be installed and activated with subscription.  
 (8) Cybersecurity TPM optional module HMIYMINATPM201 for hardware encryption with Windows bit-locker.  
 (9) For more information, refer to page 1/8.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIDM Modular Display and HMIDID iDisplay

Modular displays for Panel PC mounting

Magelis HMIDM Modular Display



<b>Display</b>	Touch screen	4:3 12" single-touch resistive	4:3 15" single-touch resistive	W12" multi-touch capacitive	W15" multi-touch capacitive
	Definition	XGA, 1024 x 768 pixels		WHD/WXGA, 1280 x 800 pixels	WHD/FWXGA, 1366 x 768 pixels
	Front protection	IP66, NEMA 4X indoor, and 7H hardness anti-scratch			
	Front USB port	1x USB 2.0 port	-		
<b>Supply voltage</b>					
-					
<b>Standards and certifications</b>					
CE, Marine DNV (15" only), RCM, EAC, CCC, cULus Industrial Control (UL 61010, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), CE ATEX and IECEx HazLoc 3GD Zone (15" only), FCC (part 15 EMC Class A).					
<b>Marine certifications</b>					
-					
<b>Compatibility</b>					
All HMIBM Modular Boxes					
<b>Mounting</b>		Panel PC	HMIBM Box + Associated HMIDM Display		
		Panel monitor	HMIDAD Adapter + Associated HMIDM Display		
<b>References</b>					
		<b>HMIDM6421</b>	<b>HMIDM7421</b>	<b>HMIDM6521</b>	<b>HMIDM7521</b>
<b>Pages</b>					
4/24					

(1) To be installed and activated by unlimited license HMIRTCZLSPAZZ (Digital) or HMIRTCZLSPMZZ (Paper).  
 (2) For more information, please refer to Magelis Display Adapter on page 4/28.

Magelis HMIDM Modular Display

Magelis HMIDAD Display Adapter (2)




W19" multi-touch capacitive	W22" multi-touch capacitive	HMIDM Modular Display with HMIDAD Display Adapter, making remote monitors as: <input type="checkbox"/> Local display (maximum distance of 5 m/16.4 ft) <input type="checkbox"/> Remote display (up to 4 daisy chain displays with same screen definition, and maximum distance of 100 m/328 ft for 1 <sup>st</sup> display to 400 m/1312 ft for 4 <sup>th</sup> display)
WHD FWXGA, 1366 x 768 pixels	Full HD, 1920 x 1080 pixels	
IP66, NEMA 4X indoor, and 7H hardness anti-scratch		
-		
-		1x USB 2.0 (Type B), 1 display port
-		
CE, CCC, EAC, RCM, cULus (UL IT 60950, CSA IT 60950), FCC (part 15 EMC Class A)		CE, cULus HazLoc, ATEX, CCC
-		-
All HMIBM Modular Boxes		All Magelis HMI Displays
HMIBM Box + Associated HMIDM Display		-
HMIDAD Adapter + Associated HMIDM Display		Magelis HMIDM Display mounted on front
<b>HMIDM9521</b>	<b>HMIDMA521</b>	<b>HMIDADP11</b>
4/25		4/31

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PCs



<b>Type of Magelis iPC</b>		<b>Magelis HMIR Rack PC</b>	
		<b>HMIR•O Optimized PC 2U (2)</b>	
			
<b>Fanless</b>		-	
<b>CPU (1)</b>	Processor	Intel Core G540 (2.5 GHz)	Intel Core G850 (2.9 GHz)
	PCI slot	2x PCIe (x8) + 1 PCI	
	Storage	No storage drive or 1 HDD	1x HDD
	RAM	2 GB DDR3	
<b>Operating system</b>		None or Windows 7	Windows 7
<b>Supply voltage</b>		110...240 V ~ (300 W single power supply)	
<b>Standards and certifications</b>		CE, cULus, EAC, CCC, RCM	
<b>Software</b>		Vijeo Designer Run Time Demo (21 day trial version) (1), EcoStruxure Operator Terminal Expert Run Time Demo (3)	
<b>Compatible display models</b>		Compatible with all screens of Magelis iDisplay range	
<b>References</b>		<b>HMIRXOHC3•01</b>	<b>HMIRSOHPA3W01</b>
<b>Pages</b>		5/2 and 5/3	

**Modular displays for Panel PC mounting** **Magelis HMIDID iDisplay - Remote monitors with DVI port**



<b>Display</b>	Touch screen	12" color multi-touch resistive	
	Definition	XGA, 1024 × 768 pixels	
	Front protection	IP65	
	Front USB port	1x USB 2.0 port	
<b>Supply voltage</b>		12...24 V ~	
<b>Standards and certifications</b>		CE, cULus, EAC, RCM, KC, ATEX/IECEX	
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS	
<b>Compatibility</b>		All PCs with video port	
<b>Mounting</b>	Panel PC	-	
	Panel monitor	Yes	
<b>References</b>		<b>HMIDID64DTD1</b>	
<b>Pages</b>		6/2	

(1) Require Vijeo Designer V6.2 SP2 or later to build and download HMI application.  
 (2) Rack 2U or 4U is a unit used to measure the height of a device that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

<b>Magelis HMIR Rack PC</b>		<b>HMIRSU Universal PC 2U (2)</b>	<b>HMIRSP Performance PC 4U (2)</b>
			
<b>Fanless</b>		-	
<b>CPU (1)</b>	Processor	Intel Core i3-2120 (3.3 GHz)	Intel Xeon™ Quad core E3-1225 (3.1 GHz)
	PCI slot	2x PCIe (x16) + 1x PCI	
	Storage	1x HDD or 1x SSD	1x HDD, 2x HDD RAID, or 1x SSD
	RAM	4 GB DDR3	
<b>Operating system</b>		Windows 7	Windows 7, or Windows Server 2008 Standard R2, or Windows Server 2012 R2
<b>Supply voltage</b>		110...240 V ~ (300 W single power supply)	110...240 V ~ (500 W single or redundant power supply)
<b>Standards and certifications</b>		CE, cULus, EAC, CCC, RCM	
<b>Software</b>		Vijeo Designer Run Time Demo (21 day trial version) (1), EcoStruxure Operator Terminal Expert Run Time Demo (3), None or Citect SCADA DVD (4)	Vijeo Designer Run Time Demo (21 day trial version) (1), EcoStruxure Operator Terminal Expert Run Time Demo, None or Citect SCADA DVD (4), or EcoStruxure Hybrid DCS leaflet
<b>Compatible display models</b>		Compatible with all screens of Magelis iDisplay range	
<b>References</b>		<b>HMIRSU•3A3701</b>	<b>HMIRSP•X•6•••</b>
<b>Pages</b>		5/2 and 5/3	

**Magelis HMIDID iDisplay** **Alternate Display option with Magelis HMIDAD Display Adapter (5)**



<b>Display</b>	Touch screen	15" color multi-touch resistive	
	Definition	XGA, 1024 × 768 pixels	
	Front protection	IP65	
	Front USB port	1x USB 2.0 port	
<b>Supply voltage</b>		12...24 V ~	
<b>Standards and certifications</b>		CE, cULus, EAC, RCM, KC, ATEX/IECEX	
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS	
<b>Compatibility</b>		All PCs with video port	
<b>Mounting</b>	Panel PC	-	
	Panel monitor	Yes	
<b>References</b>		<b>HMIDID73DTD1</b>	<b>HMIDADP11</b>
<b>Pages</b>		6/3	4/31

(3) To be installed and activated by unlimited license HMIRTWZLSPAZZ (Digital) or HMIRTWZLSPMZZ (Paper).  
 (4) Citect SCADA DVD is only for installation. Software activation license has to be ordered separately.  
 (5) For more information, please refer to Magelis Display Adapter on page 4/28.





## Magelis HMIPS S-Panel and HMIPEP Enclosed Panel PCs

- Selection guide** ..... page 2/2
- **HMIPSO Optimized**
  - Presentation ..... page 2/10
  - Description ..... page 2/11
  - References
    - Magelis HMIPSO Optimized: 10" touch screen ..... page 2/12
    - Magelis HMIPSO Optimized: 15" touch screen ..... page 2/13
- **HMIPSP Performance**
  - Presentation ..... page 2/14
  - Description ..... page 2/15
  - References
    - Magelis HMIPSP Performance: 15" touch screen ..... page 2/16
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- **HMIPEP Performance**
  - Presentation ..... page 2/18
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    - Magelis HMIPEP Performance: 19" touch screen ..... page 2/19
  - Separate components
    - Drives ..... page 2/20
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  - Equivalent product table ..... page 2/23



# Industrial PCs

Magelis iPCs for automation  
Magelis HMIPS S-Panel PC  
HMIPSO Optimized - 10" and 15" touch screens

Type of Magelis iPC

Magelis HMIPSO Optimized S-Panel PC - 10" touch screen



★★★★★			
Panel PC			
LED LCD 5-point multi-touch projected capacitive technology screen			
W 10.1"			
HD WSVGA, 1280 × 800 pixels, 267,000 colors			
IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch			
Vertical 160°, horizontal 160°			
Life span > 50,000 hrs @ 25 °C/77 °F			
Yes			
Intel® Atom E3827 dual-core (1.75 GHz, low power)			
CFast ≥ 32 GB	SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF) (1)	HDD hard disk ≥ 500 GB Enterprise 24/7 (1)	–
<input type="checkbox"/> 1 CFast card slot <input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible (1)			
Optional	Default	Default	Optional
4 GB DDR3 (not user-expandable)			
<input type="checkbox"/> 2 RJ45 Ethernet 10/100/1,000 Mbps <input type="checkbox"/> 1 USB 3.0 (Type A), 1 USB 2.0 (Type A) <input type="checkbox"/> 1 RS-232, 1 RS-232C/422/485			
Timer with 255 levels/intervals, programmable, 1...255 s			
WES 7 Premium SP1 (64-bit Multi-language) (5)	Windows 10 IoT Enterprise (64-bit Multi-language)	None or configured-to-order offer	
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSOMAC1.			
1.9 A typical			
283.1 × 202.3 × 61.3 mm (11.15 × 7.96 × 2.41 in.)			
274.6 × 193.8 mm (10.81 × 7.63 in.)			
0...55 °C/32...131 °F		0...45 °C/32...113 °F 0...55 °C/32...131 °F	
-30...70 °C/-22...158 °F			
2 g from 5...500 Hz with SSD/CFast and 1 g from 5...500 Hz with HDD			
CE, cULus ITE (UL IT 60950, CSAIT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert (2)	EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)	EcoStruxure Operator Terminal Expert (2)	–
EcoStruxure Machine SCADA Expert (6), EcoStruxure Secure Connect Advisor (7)			
<b>HMIPSOC552D1W01</b>	<b>HMIPSOS552D1801</b>	<b>HMIPSOH552D1801</b>	<b>HMIPSO0552D1001</b>
2/12			
See configured Magelis Optimized S-Panel PC on page 2/23			

(1) HMIYPADPSOSTO1 expansion kit for HMIPSO allowing 1 SATA HDD/SSD slot and 1 mini PCIe slot with its optional interface slot. Mini PCIe is limited to 0...45 °C/32...113 °F operating temperature.  
 (2) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRTWZLSPAZZ (Digital) or HMIRTWZLSPMZZ (Paper).  
 (3) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (4) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

Magelis HMIPSO Optimized S-Panel PC - 15" touch screen



★★★★★			
Panel PC			
LED LCD 5-point multi-touch projected capacitive technology screen			
W 15.6"			
HD FWXGA, 1366 × 768 pixels, 16.7 million colors			
IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch			
Vertical 140°, horizontal 150°			
Life span > 50,000 hrs @ 25 °C/77 °F			
Yes			
Intel Atom E3827 dual-core (1.75 GHz, low power)			
CFast card ≥ 32 GB	SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF) (1)	HDD hard disk ≥ 500 GB Enterprise 24/7 (1)	–
<input type="checkbox"/> 1 CFast card slot <input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible (1)			
Optional	Default	Default	Optional
4 GB DDR3 (not user-expandable)			
<input type="checkbox"/> 2 RJ45 Ethernet 10/100/1,000 Mbps <input type="checkbox"/> 1 USB 3.0 (Type A), 1 USB 2.0 (Type A) <input type="checkbox"/> 1 RS-232, 1 RS-232C/422/485			
Timer with 255 levels/intervals, programmable, 1...255 s			
WES 7 Premium SP1 (64-bit Multi-language) (5)	Windows 10 IoT Enterprise (64-bit Multi-language)	None or configured-to-order offer	
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSOMAC1.			
1.7 A typical			
419.7 × 269 × 61.9 mm (16.52 × 10.59 × 2.44 in.)			
412.4 × 261.7 mm (16.24 × 10.30 in.)			
0...55 °C/32...131 °F		0...45 °C/32...113 °F 0...55 °C/32...131 °F	
-30...70 °C/-22...158 °F			
2 g from 5...500 Hz with SSD/CFast and 1 g from 5...500 Hz with HDD			
CE, cULus ITE (UL 60950, CSA22.2 n° 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert (2)	EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)	EcoStruxure Operator Terminal Expert (2)	–
EcoStruxure Machine SCADA Expert (6), EcoStruxure Secure Connect Advisor (7)			
<b>HMIPSOC752D1W01</b>	<b>HMIPSOS752D1801</b>	<b>HMIPSOH752D1801</b>	<b>HMIPSO0752D1001</b>
2/13			
See configured Magelis Optimized S-Panel PC on page 2/23			

(5) WES 7 Premium SP1 (64-bit Multi-language) supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Microsoft Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 (6) EcoStruxure Machine SCADA Expert Run Time with Configured-To-Order Magelis S-Panel PCs.  
 (7) To be installed and activated with subscription.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPS S-Panel PC

#### HMIPSP Performance - 15" touch screen

Type of Magelis iPC

Magelis HMIPSP Performance S-Panel PC - 15" touch screen



<b>Fanless</b>		
<b>Mounting type</b>		
<b>Screen</b>	Type	
	Size	
	Resolution	
	Degree of protection	
	View angle	
	Backlight	
	Operate with water on screen	
<b>CPU</b>	Processor	
	Expansion slot	
	Storage	Main drive
	Slots	
	RAM	
	Integrated ports	
	Watchdog timer	
<b>Operating system</b>		
<b>Power supply</b>	Supply voltage	
	Power consumption	
<b>Dimensions</b>	Overall (W × H × D)	
	Mounting cut-out (W × H) with snap hook (4)	
<b>Temperature</b>	During operation	
	During storage	
<b>Vibration resistance</b>	During operation	
<b>Standards and certifications</b>		
<b>Software</b>		
<b>References</b>		
<b>Page</b>		
<b>Configured-To-Order</b>		

★★★★★			
Panel PC			
LED LCD 5-point multi-touch projected capacitive technology screen			
W 15.6"			
HD WFXGA, 1366 × 768 pixels, 16.7 million colors			
IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch			
Vertical 160°, horizontal 170°			
Life span > 50,000 hrs @ 25 °C/77 °F			
Yes			
Intel® Core™ i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)			
1 full-size mini PCIe slot with 1 optional interface slot (1)			
CFast card ≥ 32 GB	SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	SSD flash disk ≥ 256 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7
1 CFast card slot 1x 2.5" SATA HDD/SSD storage slot, user-accessible			
8 GB DDR3 (not user-expandable)			
<input type="checkbox"/> 2 RJ45 Ethernet 10/100/1,000 Mbps <input type="checkbox"/> 2 USB 3.0 <input type="checkbox"/> 1 RS-232, 1 RS-232C/422/485 <input type="checkbox"/> 1 HDMI port <input type="checkbox"/> 1 Audio out <input type="checkbox"/> 3 SMA connectors for the external antennas			
Timer with 255 levels/intervals, programmable, 1...255 s			
WES 7 Premium SP1 (64-bit) (5)	Windows 10 IoT Enterprise (64-bit Multi-language)		
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSMAC1.			
18 W typical, 60 W max.			
419.7 × 269 × 56.7 mm (16.52 × 10.59 × 2.23 in.)			
412.4 × 261.7 mm (16.24 × 10.30 in.)			
0...55 °C/32...131 °F		0...45 °C/32...113 °F	
-20...60 °C/-4...140 °F			
2 g from 5...500 Hz with SSD/CFast and 1 g from 5...500 Hz with HDD			
CE, cULus ITE (UL 60950, CSA22.2 No. 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert (2)	EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)	EcoStruxure Operator Terminal Expert (2)	
EcoStruxure Machine SCADA Expert (6), EcoStruxure Secure Connect Advisor (7)			
<b>HMIPSPC752D1W01</b>	<b>HMIPSPS752D1801</b>	<b>HMIPSPS752D180L</b>	<b>HMIPSPH752D1801</b>
2/16			
See configured Magelis Performance S-Panel PC on page 2/23			

(1) See accessories (page 2/17) for additional ports through Mini PCIe and optional interface.  
 (2) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRTWCZLSPAZZ (Digital) or HMIRTWCZLSPMZZ (Paper).  
 (3) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (4) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

Magelis HMIPSP Performance S-Panel PC - 15" touch screen



★★★★★			
Panel PC			
LED LCD 5-point multi-touch projected capacitive technology screen			
W 15.6"			
HD WFXGA, 1366 × 768 pixels, 16.7 million colors			
IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch			
Vertical 160°, horizontal 170°			
Life span > 50,000 hrs @ 25 °C/77 °F			
Yes			
Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)			
1 full-size mini PCIe slot with 1 optional interface slot (1)			
SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	SSD flash disk ≥ 256 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7	–
1 CFast card slot 1x 2.5" SATA HDD/SSD storage slot, user-accessible			
8 GB DDR3 (not user-expandable)			
<input type="checkbox"/> 2 RJ45 Ethernet 10/100/1,000 Mbps <input type="checkbox"/> 2 USB 3.0 <input type="checkbox"/> 1 RS-232, 1 RS-232C/422/485 <input type="checkbox"/> 1 HDMI port <input type="checkbox"/> 1 Audio out <input type="checkbox"/> 3 SMA connectors for the external antennas			
Timer with 255 levels/intervals, programmable, 1...255 s			
Windows 7 Ultimate SP1 (64-bit Multi-language)		None or configured-to-order offer	
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYPSMAC1.			
18 W typical, 60 W max.			
419.7 × 269 × 56.7 mm (16.52 × 10.59 × 2.23 in.)			
412.4 × 261.7 mm (16.24 × 10.30 in.)			
0...55 °C/32...131 °F		0...45 °C/32...113 °F	
-20...60 °C/-4...140 °F			
2 g from 5...500 Hz with SSD/CFast and 1 g from 5...500 Hz with HDD			
CE, cULus ITE (UL 60950, CSA22.2 No. 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)		EcoStruxure Operator Terminal Expert (2)	
EcoStruxure Machine SCADA Expert (6), EcoStruxure Secure Connect Advisor (7)			
<b>HMIPSPS752D1701</b>	<b>HMIPSPS752D170L</b>	<b>HMIPSPH752D1701</b>	<b>HMIPSP0752D1001</b>
2/16			
See configured Magelis Performance S-Panel PC on page 2/23			

(5) WES 7 Premium SP1 (64-bit) supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Microsoft Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 (6) EcoStruxure Machine SCADA Expert Run Time with Configured-To-Order Magelis iPC.  
 (7) To be installed and activated with subscription.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPS S-Panel PC

#### HMIPSP Performance - 19" touch screen

Type of Magelis iPC

Magelis HMIPSP Performance S-Panel PC - 19" touch screen



<b>Fanless</b>		
<b>Mounting type</b>		
<b>Screen</b>	Type	
	Size	
	Resolution	
	Degree of protection	
	View angle	
	Backlight	
	Operate with water on screen	
<b>CPU</b>	Processor	
	Expansion slot	
	Storage	Main drive
		Slots
	RAM	
	Integrated ports	
	Watchdog timer	
	<b>Operating system</b>	
	<b>Power supply</b>	Supply voltage
		Power consumption
<b>Dimensions</b>	Overall (W × H × D)	
	Mounting cut-out (W × H) with snap hook (4)	
<b>Temperature</b>	During operation	
	During storage	
<b>Vibration resistance</b>	During operation	
<b>Standards and certifications</b>		
<b>Software</b>		
<b>References</b>		
<b>Page</b>		
<b>Configured-To-Order</b>		

★★★★★			
Panel PC			
LED LCD 5-point multi-touch projected capacitive technology screen			
W 18.5"			
HD WFXGA, 1366 × 768 pixels, 16.7 million colors			
IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch			
Vertical 160°, horizontal 170°			
Life span > 50,000 hrs @ 25 °C/77 °F			
Yes			
Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)			
1 full-size mini PCIe slot with 1 optional interface slot (1)			
CFAST card ≥ 32 GB	SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	SSD flash disk ≥ 256 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7
<input type="checkbox"/> 1 CFAST card slot <input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible			
8 GB DDR3 (not user-expandable)			
<input type="checkbox"/> 2 RJ45 Ethernet 10/100/1,000 Mbps <input type="checkbox"/> 2 USB 3.0 <input type="checkbox"/> 1 RS-232, 1 RS-232C/422/485 <input type="checkbox"/> 1 HDMI port <input type="checkbox"/> 1 Audio out <input type="checkbox"/> 3 SMA connectors for the external antennas			
Timer with 255 levels/intervals, programmable, 1...255 s			
WES 7 Premium SP1 (64-bit) (5)	Windows 10 IoT Enterprise (64-bit Multi-language)		
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYSPMAC1.			
28 W typical, 60 W max.			
488 × 309 × 56.7 mm (19.21 × 12.16 × 2.23 in.)			
479.3 × 300.3 mm (18.87 × 11.82 in.)			
0...55 °C/32...131 °F		0...45 °C/32...113 °F	
-20...60 °C/-4...140 °F			
2 g from 5...500 Hz with SSD/CFAST and 1 g from 5...500 Hz with HDD			
CE, cULus ITE (UL 60950, CSA22.2 No. 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert (2)	EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)	EcoStruxure Operator Terminal Expert (2)	
EcoStruxure Machine SCADA Expert (6), EcoStruxure Secure Connect Advisor (7)			
<b>HMIPSPC952D1W01</b>	<b>HMIPSPS952D1801</b>	<b>HMIPSPS952D180L</b>	<b>HMIPSPH952D1801</b>
2/17			
See configured Magelis Performance S-Panel PC on page 2/23			

(1) See accessories (page 2/17) for additional ports through Mini PCIe and optional interface.  
 (2) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRTWCZLSPAZZ (Digital) or HMIRTWCZLSPMZZ (Paper).  
 (3) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (4) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

Magelis HMIPSP Performance S-Panel PC - 19" touch screen



★★★★★			
Panel PC			
LED LCD 5-point multi-touch projected capacitive technology screen			
W 18.5"			
HD WFXGA, 1366 × 768 pixels, 16.7 million colors			
IP66 front panel, NEMA 4X indoor, and 7H hardness anti-scratch			
Vertical 160°, horizontal 170°			
Life span > 50,000 hrs @ 25 °C/77 °F			
Yes			
Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)			
1 full-size mini PCIe slot with 1 optional interface slot (1)			
SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	SSD flash disk ≥ 256 GB (5-year manufacturer warranty and 1.5 million hours MTBF)	HDD hard disk ≥ 500 GB Enterprise 24/7	–
<input type="checkbox"/> 1 CFAST card slot <input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible			
8 GB DDR3 (not user-expandable)			
<input type="checkbox"/> 2 RJ45 Ethernet 10/100/1,000 Mbps <input type="checkbox"/> 2 USB 3.0 <input type="checkbox"/> 1 RS-232, 1 RS-232C/422/485 <input type="checkbox"/> 1 HDMI port <input type="checkbox"/> 1 Audio out <input type="checkbox"/> 3 SMA connectors for the external antennas			
Timer with 255 levels/intervals, programmable, 1...255 s			
Windows 7 Ultimate SP1 (64-bit Multi-language)			None or Configured-to-order offer
24 V ~ (± 20%). AC power supply with external AC/DC power adapter HMIYSPMAC1.			
28 W typical, 60 W max.			
488 × 309 × 56.7 mm (19.21 × 12.16 × 2.23 in.)			
479.3 × 300.3 mm (18.87 × 11.82 in.)			
0...55 °C/32...131 °F		0...45 °C/32...113 °F	
-20...60 °C/-4...140 °F			
2 g from 5...500 Hz with SSD/CFAST and 1 g from 5...500 Hz with HDD			
CE, cULus ITE (UL 60950, CSA22.2 No. 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)	EcoStruxure Operator Terminal Expert (2)		–
EcoStruxure Machine SCADA Expert (6), EcoStruxure Secure Connect Advisor (7)			
<b>HMIPSPS952D1701</b>	<b>HMIPSPS952D170L</b>	<b>HMIPSPH952D1701</b>	<b>HMIPSP0952D1001</b>
2/17			
See configured Magelis Performance S-Panel PC on page 2/23			

(5) WES 7 Premium SP1 (64-bit) supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:  
 - Microsoft Word/Excel/Power Point Viewer  
 - Framework.Net 3.5  
 - Web browser  
 (6) EcoStruxure Machine SCADA Expert Run Time with Configured-To-Order Magelis iPC.  
 (7) To be installed and activated with subscription.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPEP Enclosed Panel PC

#### HMIPEP Performance - 19" touch screen

Type of Magelis iPC

Magelis HMIPEP Performance Enclosed Panel PC - 19" touch screen



Fanless

★★★★★

Mounting type

Enclosed PC

Screen	Type	LED LCD 5-point multi-touch projected capacitive technology screen
	Size	W 18.5"
	Resolution	HD WFGA, 1366 × 768 pixels, 16.7 million colors
	Degree of protection	IP66 all over with VESA 100 mounting, NEMA 4X indoor, and 7H hardness anti-scratch front panels
	View angle	Vertical 160°, horizontal 170°
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F
	Operate with water on screen	Yes

LED LCD 5-point multi-touch projected capacitive technology screen	
W 18.5"	
HD WFGA, 1366 × 768 pixels, 16.7 million colors	
IP66 all over with VESA 100 mounting, NEMA 4X indoor, and 7H hardness anti-scratch front panels	
Vertical 160°, horizontal 170°	
Life span > 50,000 hrs @ 25 °C/77 °F	
Yes	

CPU	Processor	Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)	
	Expansion slot	1 full-size mini PCIe slot without external interface slot (1)	
	Storage	Main drive	SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF)
		Slots	<input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible
	RAM	8 GB DDR3 (not user-expandable)	
	Integrated ports	<input type="checkbox"/> 2 Ethernet 10/100/1,000 Mbps M12 A-coding 8-pin female connector <input type="checkbox"/> 1 USB 2.0 with M12 8-pin female connector <input type="checkbox"/> 1 RS-232 with M12 8-pin male connector	
Watchdog timer	Timer with 255 levels/intervals, programmable, 1...255 s		

Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)		
1 full-size mini PCIe slot without external interface slot (1)		
Storage	Main drive	SSD flash disk ≥ 128 GB (5-year manufacturer warranty and 1.5 million hours MTBF)
	Slots	<input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible
RAM	8 GB DDR3 (not user-expandable)	
Integrated ports	<input type="checkbox"/> 2 Ethernet 10/100/1,000 Mbps M12 A-coding 8-pin female connector <input type="checkbox"/> 1 USB 2.0 with M12 8-pin female connector <input type="checkbox"/> 1 RS-232 with M12 8-pin male connector	
Watchdog timer	Timer with 255 levels/intervals, programmable, 1...255 s	

Operating system

Windows 10 IoT Enterprise (64-bit Multi-language)

Power supply	Supply voltage	24 V $\pm$ 20%. AC power supply with external AC/DC power adapter HMIYSPMAC1.
	Power consumption	35 W typical, 60 W max.

24 V $\pm$ 20%. AC power supply with external AC/DC power adapter HMIYSPMAC1.	
35 W typical, 60 W max.	

Dimensions	Overall (W × H × D)	419.7 × 269 × 56.7 mm (16.52 × 10.59 × 2.23 in.)
------------	---------------------	--

419.7 × 269 × 56.7 mm (16.52 × 10.59 × 2.23 in.)

Temperature	During operation	0...55 °C/32...131 °F
	During storage	-20...60 °C/-4...140 °F

0...55 °C/32...131 °F	
-20...60 °C/-4...140 °F	

Vibration resistance	During operation	2 g from 5...500 Hz with SSD and CFast
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2 g from 5...500 Hz with SSD and CFast

Standards and certifications

CE, cULus ITE (UL 60950, CSA22.2 No. 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)

Software

EcoStruxure Operator Terminal Expert (2), Citect SCADA DVD (3)  
EcoStruxure Machine SCADA Expert (4), EcoStruxure Secure Connect Advisor (5)

References

**HMIPEPS952D1801**

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Configured-To-Order

See configured Magelis Enclosed Performance S-Panel PC on page 2/23

(1) See accessories (page 2/17) for additional ports through Mini PCIe and optional interface.  
 (2) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRTCWZLSPAZZ (Digital) or HMIRTCWZLSPMZZ (Paper).  
 (3) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

Magelis HMIPEP Performance Enclosed Panel PC - 19" touch screen



★★★★★

Enclosed PC

LED LCD 5-point multi-touch projected capacitive technology screen	
W 18.5"	
HD WFGA 1366 × 768 pixels, 16.7 million colors	
IP66 all over with VESA 100 mounting, NEMA 4X indoor, and 7H hardness anti-scratch front panels	
Vertical 160°, horizontal 170°	
Life span > 50,000 hrs @ 25 °C/77 °F	
Yes	

Intel Core i3-4010U dual-core 4 <sup>th</sup> generation (1.7 GHz)	
1 full-size mini PCIe slot without external interface slot (1)	
-	
<input type="checkbox"/> 1x 2.5" SATA HDD/SSD storage slot, user-accessible	
8 GB DDR3 (not user-expandable)	
<input type="checkbox"/> 2 Ethernet 10/100/1,000 Mbps M12 A-coding 8-pin female connector <input type="checkbox"/> 1 USB 2.0 with M12 8-pin female connector <input type="checkbox"/> 1 RS-232 with M12 8-pin male connector	
Timer with 255 levels/intervals, programmable, 1...255 s	

None or configured-to-order offer

24 V $\pm$ 20%. AC power supply with external AC/DC power adapter HMIYSPMAC1.	
35 W typical, 60 W max.	

419.7 × 269 × 56.7 mm (16.52 × 10.59 × 2.23 in.)

0...55 °C/32...131 °F	
-20...60 °C/-4...140 °F	

2 g from 5...500 Hz with SSD and CFast

CE, cULus ITE (UL 60950, CSA22.2 No. 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)

-

EcoStruxure Machine SCADA Expert (4), EcoStruxure Secure Connect Advisor (5)

**HMIPEP0952D1001**

2/19

See configured Magelis Enclosed Performance S-Panel PC on page 2/23

(4) EcoStruxure Machine SCADA Expert Run Time with Configured-To-Order Magelis iPC.  
 (5) To be installed and activated with subscription.

# Industrial PCs

Magelis™ iPCs for automation

Magelis HMIPS S-Panel PCs

HMIPSO Optimized -10" and 15" touch screens

2



Magelis HMIPSO Optimized S-Panel PCs 10" and 15"

## Presentation

Magelis HMIPSO Optimized S-Panel PCs are the entry level Panel PCs in the Magelis iPC range. These simple-in-design PCs with Intel™ Atom dual-core CPU cater for the performance requirements of most automation applications in the field.

Magelis Optimized S-Panel PCs offer improved application and operator efficiency with:

- 10"/15" wide TFT multi-touch screens, LED backlight, IP66 protection, and 7H hardness anti-scratch front
- Maintenance-free non-rotating parts and operation up to +55 °C/131 °F (or up to +45 °C/113 °F for models with HDD or mini PCIe)
- Integration of software applications such as HMI EcoStruxure Operator Terminal Expert software and third-party Windows software
- Expansions with optional interfaces based on mini PCIe (Com, USB, HD audio, Video, networks, wireless, etc.)
- Available with WES 7, Windows 8.1, Windows 10, without an operating system, or with Windows 7 or 8.1 in Configured-To-Order offer

## Overview of the offer

### Magelis HMIPSO Optimized

The Magelis HMIPSO S-Panel PCs offer comprises 8 references, each equipped with:

- Fanless Intel® Atom E3827 dual-core processor(1.75 GHz)
- 4 GB DDR3 RAM, default mounted
- Connection ports: 1x USB 3.0, 1x USB 2.0, 2x COM (RS-232/422/485), 2 Gigabit Ethernet
- Expansion kit (depending on model): 1x optional/default kit allowing 1x SATA HDD/SSD slot and 1x mini PCIe slot with its optional interface slot
- Power supply: 24 V  $\overline{\text{---}}$ , AC power supply with external AC/DC power adapter **HMIYPSOMAC1**

The operating systems and storage devices for 10" and 15" touch screens are as follows:

- **HMIPSOC552D1W01** and **HMIPSOC752D1W01**:
  - Operating system: WES 7 Premium SP1 (64-bit)
  - Default storage device: 32 GB CFAST card
- **HMIPSOS552D1801** and **HMIPSOS752D1801**:
  - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
  - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
  - Expansion kit: **HMIYPADPSOSTO1**
- **HMIPSOH552D1801** and **HMIPSOH752D1801**:
  - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
  - Default storage device: 500 GB HDD (Enterprise 24/7)
  - Expansion kit: **HMIYPADPSOSTO1**
- **HMIPSO0552D1001** and **HMIPSO0752D1001**:
  - Operating system: None
  - Default storage device: None
- Windows 7 SP1 Ultimate operating system (64-bit Multi-language) is available with Configured-To-Order offer (see page 2/23)

## Ready-to-run Software for Magelis HMIPSO

Magelis HMIPSO S-Panel PCs are supported by Schneider Electric HMI software. For HMI applications, EcoStruxure Operator Terminal Expert Run Time demo version can be downloaded and activated to unlimited version with **HMIRTWZLSPAZZ** (Digital) or **HMIRTWZLSPMZZ** (Paper) license. For line management and lite supervision, EcoStruxure Machine SCADA Expert Run Time is available via Configured-To-Order process. For more information on EcoStruxure Operator Terminal Expert and EcoStruxure Machine SCADA Expert, please refer to our website [www.schneider-electric.com/HMI Configuration Software](http://www.schneider-electric.com/HMI Configuration Software).

Citect SCADA software can run on Magelis HMIPSO with an SSD disk drive. This software can be installed from the Citect SCADA DVD (1) supplied with Magelis HMIPSO.

For secure remote access, Magelis HMIPSO are supported with EcoStruxure Secure Connect Advisor that will have to be installed and activated with subscription.

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

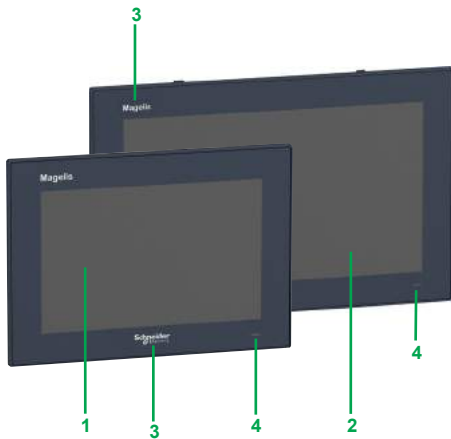
## Description

# Industrial PCs

Magelis iPCs for automation

Magelis HMIPSO S-Panel PCs

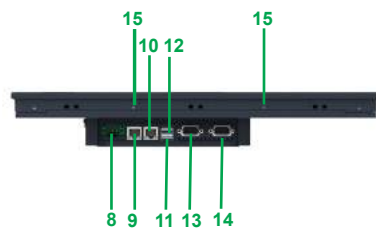
HMIPSO Optimized -10" and 15" touch screens



10" and 15" front view



Rear view



Underside view



Underside view with expansion kit

### Description

#### Magelis HMIPSO Optimized: 10" and 15" touch screens

##### Front view

- 1 10" LCD multi-touch LED screen, HD WSVGA, 1280 × 800 pixels, and 267,000 colors for **HMIPSO●552D1●01**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5-point projected capacitive technology multi-touch
  - Typical viewing angle: 160° (vertically)/160° (horizontally)
- 2 15" LCD multi-touch LED screen, HD WFXGA, 1366 × 768 pixels, and 16 million colors for **HMIPSO●752D1●01**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5-point projected capacitive technology multi-touch
  - Typical viewing angle: 140° (vertically)/150° (horizontally)
- 3 Magelis and Schneider Electric removable stickers
- 4 Power status indicator (Green: On, Orange: Stand-by, No light: Off)

##### Rear view (1)

- 5 Optional AC power supply
- 6 S-Panel PC interface
- 7 Cover for mini PCIe card and HDD/SSD drive

##### Underside view

- 8 DC power connector
- 9 1x Eth1 (10/100/1,000 Mbps)
- 10 1x Eth2 (10/100/1,000 Mbps)
- 11 1x USB2 (USB 2.0)
- 12 1x USB1 (USB 3.0)
- 13 1x COM2 RS-232/422/485 port
- 14 1x COM1 RS-232 port
- 15 Snap hook (2)
- 16 Expansion kit
- 17 Optional interface
- 18 Optional AC power supply

(1) Cooling method is by passive heat sink.

(2) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPS S-Panel PC

#### HMIPSO Optimized - 10" touch screen

2



HMIPSOS552D1801



HMIPSOS552D1801

### Magelis HMIPSO Optimized: 10" touch screen (Intel Atom E3827 dual-core processor, 1.75 GHz)

Supply voltage	Operating system (1)	Software	Storage	DDR3 RAM (5)	Reference	Weight kg/lb
24 V ~ (6)	WES 7 Premium SP1 (64-bit) (2)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), IIoT monitor with Node-RED	CFAST card ≥ 32 GB	4 GB	<b>HMIPSOC552D1W01</b>	2.50/ 5.51
			SSD flash disk ≥ 128 GB with 1.5 million hours MTBF (mounted in expansion kit)			<b>HMIPSOS552D1801</b>
			HDD hard disk ≥ 500 GB (mounted in expansion kit)	4 GB	<b>HMIPSOH552D1801</b>	2.50/ 5.51
				4 GB	<b>HMIPSO0552D1001</b>	2.50/ 5.51

- (1) Windows 7 SP1 Ultimate (64-bit Multi-language) and Windows 8.1 Industry SP1 (64-bit Multi-language) operating system are available with Configured-To-Order Magelis HMIPSO (see page 2/23).
- (2) WES 7 Premium SP1 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:
  - Microsoft® Word/Excel/Power Point Viewer
  - Framework.Net 3.5
  - Web browser
- (3) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).
- (4) To be installed and activated with subscription.
- (5) 4 GB DDR3 RAM is not user-expandable.
- (6) AC power supply with external AC/DC power adapter HMIYSPMAC1.



PF513948



HMIPSOS752D1801

PF513950



HMIPSOS752D1801

**Magelis HMIPSO Optimized: 15" touch screen**  
**(Intel Atom E3827 dual-core processor, 1.75 GHz)**

Supply voltage	Operating system (1)	Software	Storage	DDR3 RAM(5)	Reference	Weight kg/lb
24 V ~ (6)	WES 7 Premium SP1 (64-bit) (2)	EcoStruxure Operator Terminal Expert RT Demo (3), EcoStruxure Secure Connect Advisor (4)	CFlash card ≥ 32 GB	4 GB	<b>HMIPSOC752D1W01</b>	3.90/ 8.60
			SSD flash disk ≥ 128 GB with 2 million hours MTBF (mounted in expansion kit)	4 GB	<b>HMIPSOS752D1801</b>	3.90/ 8.60
	HDD hard disk ≥ 500 GB (mounted in expansion kit)	4 GB	<b>HMIPSOH752D1801</b>	3.90/ 8.60		
–	–	–	–	4 GB	<b>HMIPSO0752D1001</b>	3.90/ 8.60

(1) Windows 7 SP1 Ultimate (64-bit Multi-language) and Windows 8.1 Industry SP1 (64-bit Multi-language) operating system are available with Configured-To-Order Magelis HMIPSO (see page 2/23).

(2) WES 7 Premium SP1 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:

- Microsoft® Word/Excel/Power Point Viewer
- Framework.Net 3.5
- Web browser

(3) EcoStruxure Operator Terminal Expert RT: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).

(4) To be installed and activated with subscription.

(5) 4 GB DDR3 RAM is not user-expandable.

(6) AC power supply with external AC/DC power adapter HMIYPSMAC1.

# Industrial PCs

Magelis™ iPCs for automation

Magelis HMIPS S-Panel PCs

HMIPSP Performance -15" and 19" touch screens

2



Magelis S-Panel Performance PC 15" and 19"

## Presentation

Magelis HMIPSP Performance S-Panel PCs are simple all-in-one design performance PCs. The 15"/19" wide screens, HD resolution display, and capacitive multi-touch feature enhances the user experience of these PCs. The fanless Intel Core i3 CPU processor delivers good performance for a wide range of software.

Magelis Performance S-Panel PCs offer improved application and operator efficiency with:

- 15"/19" wide TFT multi-touch screens, LED backlight, IP66 protection, and 7H hardness anti-scratch front
- Slim panels with depth < 57 mm/2.24 in.
- Maintenance-free non-rotating parts and operation up to +55 °C/131 °F
- Integration of software applications such as HMI EcoStruxure Operator Terminal Expert software, Lite supervision EcoStruxure Machine SCADA Expert, Citect SCADA, and third-party Windows software
- Expansions with optional interfaces based on mini PCIe (Com, USB, HD audio, Video, networks, wireless, etc.)
- Available with WES 7, Windows 7, Windows 8.1, Windows 10, or without an operating system

## Overview of the offer

### Magelis HMIPSP Performance

The Magelis HMIPSP Performance PCs offer comprises 16 references, each equipped with:

- Fanless Intel® i3-4010U dual-core processor (1.7 GHz)
  - 8 GB DDR3 RAM, default mounted
  - Connection ports: 2x USB 3.0, 2x COM (RS-232/422/485), 2x Gigabit Ethernet, 1x HD audio port, 1x HDMI video port, 3x SMA for antennas
  - Expansion slot: 1x mini PCI Express® full slot with 1x optional interface slot
  - Power supply: 24 V  $\overline{\text{---}}$ , AC power supply with external AC/DC power adapter
- HMIYPSMAC1**

The operating systems and storage devices for 15" and 19" touch screens are as follows:

- **HMIPSPC752D1W01** and **HMIPSPC952D1W01**:
  - Operating system: WES 7 Premium SP1 (64-bit)
  - Default storage device: 32 GB CFAST card
- **HMIPSPS752D1801** and **HMIPSPS952D1801**:
  - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
  - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
- **HMIPSPS752D180L** and **HMIPSPS952D180L**:
  - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
  - Default storage device: 256 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
- **HMIPSPH752D1801** and **HMIPSPH952D1801**:
  - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
  - Default storage device: 500 GB HDD (Enterprise 24/7)
- **HMIPSPS752D1701** and **HMIPSPS952D1701**:
  - Operating system: Windows 7 Ultimate SP1 (64-bit Multi-language)
  - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
- **HMIPSPS752D170L** and **HMIPSPS952D170L**:
  - Operating system: Windows 7 Ultimate SP1 (64-bit Multi-language)
  - Default storage device: 256 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
- **HMIPSPH752D1701** and **HMIPSPH952D1701**:
  - Operating system: Windows 7 Ultimate SP1 (64-bit Multi-language)
  - Default storage device: 500 GB HDD (Enterprise 24/7)
- **HMIPSP0752D1001** and **HMIPSP0952D1001**:
  - Operating system: None
  - Default storage device: None

# Industrial PCs

Magelis iPCs for automation

Magelis HMIPSP S-Panel PCs

HMIPSP Performance -15" and 19" touch screens

## Presentation (continued)

### Ready-to-run Software for Magelis HMIPSP

Magelis HMIPSP S-Panel PCs are supported by Schneider Electric HMI software. For HMI applications, EcoStruxure Operator Terminal Expert Run Time demo version can be downloaded and activated to unlimited version with **HMIRTWCZLSPAZZ** (Digital) or **HMIRTWCZLSPMZZ** (Paper) license. For line management and lite supervision, EcoStruxure Machine SCADA Expert Run Time is available via Configured-To-Order process. For more information on EcoStruxure Operator Terminal Expert and EcoStruxure Machine SCADA Expert, please refer to our website [www.schneider-electric.com/HMI](http://www.schneider-electric.com/HMI) Configuration Software.

Citect SCADA software can run on Magelis HMIPSP with an SSD disk drive. This software can be installed from the Citect SCADA DVD supplied with Magelis HMIPSP (1).

For secure remote access, Magelis HMIPSP are supported with EcoStruxure Secure Connect Advisor that will have to be installed and activated with subscription.

## Description

### Magelis HMIPSP Performance: 15" and 19" touch screens

#### Front view

- 1 15" LCD multi-touch LED screen, HD WFXGA, 1366 × 768 pixels, 16 million colors for **HMIPSP●752D1●●●●**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5-point projected capacitive technology multi-touch
  - Typical viewing angle: 160° (vertically)/170° (horizontally)
- 2 19" LCD multi-touch LED screen, HD WFXGA, 1366 × 768 pixels, 16 million colors for **HMIPSP●952D1●●●●**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5-point projected capacitive technology multi-touch
  - Typical viewing angle: 160° (vertically)/170° (horizontally)
- 3 Magelis and Schneider Electric removable stickers
- 4 Power status indicator (Green: On, Orange: Stand-by, No light: Off)

#### Rear view

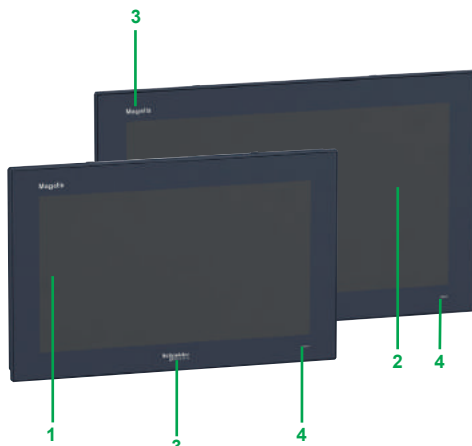
- 5 Heat sink
- 6 S-Panel PC interface
- 7 S-Panel PC cover for storage drives (2.5" SATA HDD/SSD, CFast)
- 8 S-Panel PC rear access to mini PCIe and internal connector for optional interfaces

#### Underside view

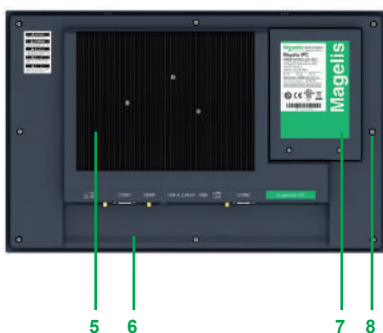
- 9 DC power connector
- 10 SMA connector for the external antenna (1)
- 11 1x COM1, RS-232 port
- 12 1x HDMI
- 13 SMA connector for the external antenna
- 14 1x Eth1 (10/100/1000 Mbps) supports AMT (active management technology)
- 15 1x Eth2 (10/100/1000 Mbps)
- 16 1x USB1 (USB 3.0) and 1x USB2 (USB 3.0)
- 17 1x Audio Line out
- 18 1x COM2, RS-232/422/485 port
- 19 1x optional interface
- 20 Snap hook (2)

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

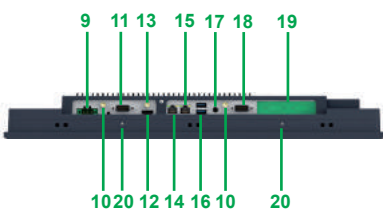
(2) Snap hook allows mounting of S-Panel PC in the panel cut-out single-handedly.



15" and 19" front view



19" rear view



19" underside view

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPS S-Panel PC

#### HMIPSP Performance - 15" touch screen

2

PF513847



HMIPSPH752D1801

PF513849



HMIPSPH752D1801

Magelis HMIPSP Performance: 15" touch screen (Intel i3-4010U dual-core processor, 1.7 GHz)										
Supply voltage	Operating system (1)	Software	Storage	DDR3 RAM (6)	Reference	Weight kg/lb				
24 V $\overline{\text{---}}$ (7) 1 mini PCIe slot	WES 7 Premium SP1 (64-bit Multi-language) (2)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)	CFAST card $\geq$ 32 GB	8 GB	<b>HMIPSPC752D1W01</b>	6.00/ 13.23				
			Windows 10 IoT Enterprise (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), Citect SCADA DVD (4), EcoStruxure Secure Connect Advisor (5)		SSD flash disk $\geq$ 128 GB with 1.5 million hours MTBF	8 GB	<b>HMIPSPS752D1801</b>	6.00/ 13.23	
				EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)		SSD flash disk $\geq$ 256 GB with 1.5 million hours MTBF	8 GB	<b>HMIPSPS752D180L</b>	6.00/ 13.23	
			EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)	HDD hard disk $\geq$ 500 GB	8 GB	<b>HMIPSPH752D1801</b>	6.00/ 13.23			
	Windows 7 Ultimate SP1 (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), Citect SCADA DVD (4), EcoStruxure Secure Connect Advisor (5)	SSD flash disk $\geq$ 128 GB with 1.5 million hours MTBF		8 GB	<b>HMIPSPS752D1701</b>	6.00/ 13.23			
							SSD flash disk $\geq$ 256 GB with 1.5 million hours MTBF	8 GB	<b>HMIPSPS752D170L</b>	6.00/ 13.23
							EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)	HDD hard disk $\geq$ 500 GB	8 GB	<b>HMIPSPH752D1701</b>
	–	–	–		8 GB	<b>HMIPSP0752D1001</b>	6.00/ 13.23			

- (1) Windows 8.1 Industry SP1 (64-bit Multi-language) operating system is available with Configured-To-Order: Magelis HMIPSP (see page 2/23).
- (2) WES 7 Premium SP1 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:
  - Microsoft (R) Word/Excel/Power Point Viewer
  - Framework.Net 3.5
  - Web browser
- (3) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).
- (4) Citect SCADA DVD is only used for installation. Software activation license has to be ordered separately.
- (5) To be installed and activated with subscription.
- (6) 8 GB DDR3 RAM is not user-expandable.
- (7) AC power supply with external AC/DC power adapter HMIYSPMAC1.

# Industrial PCs

Magelis iPCs for automation

Magelis HMIPS S-Panel PCs

HMIPSP Performance - 19" touch screen

## Magelis HMIPSP Performance: 19" touch screen (Intel i3-4010U dual-core processor, 1.7 GHz)



HMIPSPH952D1801



HMIPSPH952D1801

Supply voltage Expansion slot	Operating system (1)	Software	Storage	DDR3 RAM(6)	Reference	Weight kg/lb
24 V ~ (7) 1 mini PCIe slot	WES 7 Premium SP1 (64-bit Multi-language) (2)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)	CFAST card ≥ 32 GB	8 GB	<b>HMIPSPC952D1W01</b>	7.00/ 15.43
			Windows 10 IoT Enterprise (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), Citect SCADA DVD (4), EcoStruxure Secure Connect Advisor (5)	SSD flash disk ≥ 128 GB with 1.5 million hours MTBF	8 GB
		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)	SSD flash disk ≥ 256 GB with 1.5 million hours MTBF	8 GB	<b>HMIPSPS952D180L</b>	7.00/ 15.43
			HDD hard disk ≥ 500 GB	8 GB	<b>HMIPSPH952D1801</b>	7.00/ 15.43
	Windows 7 Ultimate SP1 (64-bit Multi- language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), Citect SCADA DVD (4), EcoStruxure Secure Connect Advisor (5)	SSD flash disk ≥ 128 GB with 1.5 million hours MTBF	8 GB	<b>HMIPSPS952D1701</b>	7.00/ 15.43
		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (5)	SSD flash disk ≥ 256 GB with 1.5 million hours MTBF	8 GB	<b>HMIPSPS952D170L</b>	7.00/ 15.43
			HDD hard disk ≥ 500 GB	8 GB	<b>HMIPSPH952D1701</b>	7.00/ 15.43
-	-	-	-	8 GB	<b>HMIPSP0952D1001</b>	7.00/ 15.43

- (1) Windows 8.1 Industry SP1 (64-bit Multi-language) operating system is available with Configured-To-Order Magelis HMIPSP (see page 2/23).
- (2) WES 7 Premium SP1 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian). Also includes:
  - Microsoft (R) Word/Excel/Power Point Viewer
  - Framework.Net 3.5
  - Web browser
- (3) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRTCZLSPAZZ (Digital) or HMIRTCZLSPMZZ (Paper).
- (4) Citect SCADA DVD is only used for installation. Software activation license has to be ordered separately.
- (5) To be installed and activated with subscription.
- (6) 8 GB DDR3 RAM is not user-expandable.
- (7) AC power supply with external AC/DC power adapter HMIYSPMAC1.

# Industrial PCs

Magelis™ iPCs for automation  
 Magelis HMIPEP Enclosed Panel PC  
 HMIPEP Performance -19" touch screen

2



Magelis HMIPEP Performance Enclosed Panel PC 19"

## Presentation

Magelis HMIPEP Enclosed Performance S-Panel PCs are fully enclosed PCs with IP66 protection on all sides. These 19" wide PCs can be directly mounted on a machine or automation system without any additional enclosure. The HD display and multi-touch features enhance the user experience.

Magelis Enclosed Performance S-Panel PCs offer increased application and operator efficiency with:

- 19" wide HD TFT multi-touch screens, LED backlight, and 7H hardness anti-scratch front
- Ready to be VESA mounted with IP65 protection on all sides and M12 connections
- Slim enclosed panels with 65 mm/2.56 in. depth
- Maintenance-free non-rotating parts and operation up to +55 °C/131 °F
- Available with Windows 10, without an operating system, or with Windows 7 and 8.1 in Configured-To-Order offer

## Overview of the offer

### Magelis HMIPEP Performance

The Magelis HMIPEP Enclosed Performance PCs offer comprises 2 references, each equipped with:

- Fanless Intel® i3-4010U dual-core processor (1.7 GHz)
- 8 GB DDR3 RAM, default mounted
- 5x M12 Connection ports: 1x USB 2.0, 1x COM (RS-232), 2x Gigabit Ethernet, 1x 24 V  $\overline{\text{---}}$  power supply
- Expansion slot: 1x full-size mini PCIe slot without external interface slot

The operating systems and storage devices for 19" touch screens are as follows:

- **HMIPEPS952D1801:**
  - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
  - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
- **HMIPEP0952D1001:**
  - Operating system: None
  - Default storage device: None

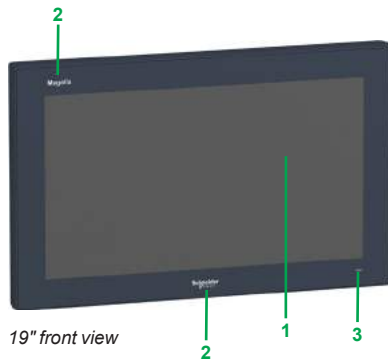
## Ready-to-run Software for Magelis HMIPEP

Magelis HMIPEP S-Panel PCs are supported by Schneider Electric HMI software. For HMI applications, EcoStruxure Operator Terminal Expert Run Time demo version can be downloaded and activated to unlimited version with **HMIRTWZLSPAZZ** (Digital) or **HMIRTWZLSPMZZ** (Paper) license. For line management and lite supervision, EcoStruxure Machine SCADA Expert Run Time is available via Configured-To-Order process. For more information on EcoStruxure Operator Terminal Expert and EcoStruxure Machine SCADA Expert, please refer to our website [www.schneider-electric.com/HMI Configuration Software](http://www.schneider-electric.com/HMI Configuration Software).

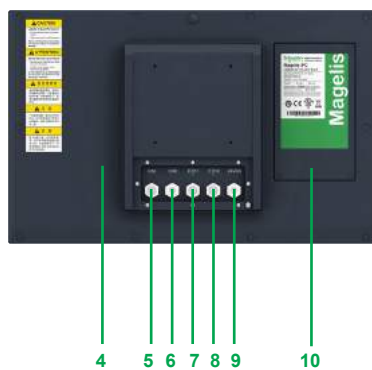
Citect SCADA software can run on Magelis HMIPEP with an SSD disk drive. This software can be installed from the Citect SCADA DVD (1) supplied with Magelis HMIPEP.

For secured remote access, Magelis HMIPEP are supported with EcoStruxure Secure Connect Advisor that will have to be installed and activated with subscription.

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.



19" front view



19" rear view



HMIPEPS952D1801



HMIPEPS952D1801

### Description

#### Magelis HMIPEP Performance: 19" touch screen

##### Front view

- 1 19" LCD multi-touch LED screen, HD WFXGA 1366 × 768 pixels, 16 million colors for **HMIPEP●952D1●01**:
  - Brightness: 300 cd/m<sup>2</sup> (adjustable)
  - Type of touch panel: 5-point projected capacitive technology multi-touch
  - Typical viewing angle: 160° (vertically)/170° (horizontally)
- 2 Magelis and Schneider Electric removable stickers
- 3 Power status indicator (Green: On, Orange: Stand-by, No light: Off)

##### Rear view (1)

- 4 Cover
- 5 1x USB 2.0 with M12 8-pin female connector
- 6 1x RS-232 with M12 8-pin male connector
- 7 1x Eth1 (10/100/1000 Mbps) base-T with M12 8-pin female connector
- 8 1x Eth2 (10/100/1000 Mbps) base-T with M12 8-pin female connector
- 9 1x 24 V  $\overline{\text{---}}$  power supply with M12 5-pin male connector
- 10 Back cover to access HDD/SSD slot

#### Magelis HMIPEP Performance: 19" touch screen (Intel i3-4010U dual-core processor, 1.7 GHz)

Supply voltage	Expansion slot	Storage	Software	Reference	Weight kg/lb
<b>Windows 10 IoT Enterprise (64-bit Multi-language), 8 GB DDR3 RAM (4)</b>					
24 V $\overline{\text{---}}$	1x mini PCIe slot	SSD flash disk $\geq$ 128 GB with 1.5 million hours MTBF	EcoStruxure Operator Terminal Expert Run Time Demo (2), Citect SCADA.DVD (3), EcoStruxure Secure Connect Advisor (5)	<b>HMIPEPS952D1801</b>	8.00/ 17.64
<b>No operating system, 8 GB DDR3 RAM (4)</b>					
24 V $\overline{\text{---}}$	1x mini PCIe slot		EcoStruxure Machine SCADA Expert (6)	<b>HMIPEP0952D1001</b>	8.00/ 17.64

(1) Cooling method is by passive heat sink.

(2) EcoStruxure Operator Terminal Expert Run Time: The demo version can be used temporarily without activation (installation from EcoStruxure Operator Terminal Expert Build Time DVD) and can be upgraded to unlimited version by purchasing the license HMIRTCZLSPAZZ (Digital) or HMIRTCZLSPMZZ (Paper).

(3) Citect SCADA DVD is only used for installation. Software activation license has to be ordered separately.

(4) 8 GB DDR3 RAM is not user-expandable.

(5) To be installed and activated with subscription.

(6) With Configured-To-Order Magelis Modular Box PC.

2



HMIYSSDS240S1



HMIYMINNVRAM1



HMIYMINSL24851



HMIYMINCAN1

Separate components						
Description	Details	Compatible with Magelis HMIP			Reference	Weight kg/lb
		Optimized	Performance	Enclosed Performance		
		HMIPSO	HMIPSP	HMIPEP		
<b>Drives</b>						
<b>Blank CFast card</b>	32 GB MLC	Yes			HMIYCFA32S	–
<b>Blank SSD with mounting screws</b>	128 GB MLC (5-year warranty and 1.5 million hours MTBF)	All models (1)			HMIYSSDS080S1	–
	256 GB MLC (5-year warranty and 2 million hours MTBF)	All models (1)			HMIYSSDS240S1	–
<b>Blank HDD</b>	Spare 1 TB HDD, blank	All models (1)			HMIYHDD01T21	–
	Spare 500 GB HDD, blank	All models (1)			HMIYHDD50021	–
<b>Interfaces</b>						
<b>NVRAM interface</b>	Mini PCIe with non-volatile RAM, without external connectors	Yes (1)			HMIYMINNVRAM1	–
<b>HDMI to DVI interface</b>	HDMI to DVI interface	–	Yes		HMIYADHDMIDVIS1	–
<b>2 RS-422/485 isolated interface</b>	Mini PCIe with 2x RS-422/485, isolated external interface with connectors	Yes (1)			HMIYMINSL24851	–
<b>4 RS-422/485 interface</b>	Mini PCIe with 4x RS-422/485, external interface with connectors	Yes (1)			HMIYMINSL44851	–
<b>2 RS-232 isolated interface</b>	Mini PCIe with 2x RS-232, isolated external interface with connectors	Yes (1)			HMIYMINSL22321	–
<b>4 RS-232 interface</b>	Mini PCIe with 4x RS-232, external interface with connectors	Yes (1)			HMIYMINSL42321	–
<b>1 Profibus DP Master NVRAM interface</b>	Mini PCIe with 1x Profibus DP Master, non-volatile RAM, external interface with connectors	Yes (1)			HMIYMINPRO1	–
<b>2 CANopen/CAN bus interface</b>	Mini PCIe with 2x CAN fieldbus, external interface with connectors, drivers for CANopen and CAN bus	Yes (1)			HMIYMINCAN1	–

(1) Require Expansion kit (HMIYPADPSOSTO1) for HMIPSO Optimized S-Panel PC.





HMIYMINIO1



HMIYMIN4GUS1

Separate components (continued)						
Description	Details	Compatible with Magelis HMIP			Reference	Weight kg/lb
		Optimized	Performance	Enclosed Performance		
		HMIPSO	HMIPSP	HMIPEP		
<b>Interfaces (continued)</b>						
<b>16DI/8DO interface</b>	Mini PCIe with 16DI/8DO, external interface with connectors, 2 m/6.56 ft cable and DIN rail wiring terminal	Yes (1)	–	–	HMIYMINIO1	–
<b>2 USB 3.0 interface</b>	Mini PCIe with USB 3.0, external interface with connectors	Yes (1)	–	–	HMIYMINUSB1	–
<b>3G cellular interface</b>	Mini PCIe with GPRS, SIM card holder and external antenna	Yes (1)	–	–	HMIYMINGPRS1	–
<b>Wireless LAN interface + 2 antennas kit</b>	Kit with mini PCIe (half-size) WiFi access point + bluetooth, adapter to mini PCIe (full-size) slot, and 2x antennas	Yes (1)	–	–	HMIYMINWIFI1	–
<b>WiFi interface access point and 2x antennas</b>	Kit with mini PCIe WiFi access point (with Windows 10) + bluetooth and 2x antennas	Yes (1)	–	–	HMIYMINWIFI2	–
<b>Remote wireless LAN antenna cable</b>	5 m/16.4 ft cable to mount a WiFi antenna remotely from Magelis iPC	Yes (1)	–	–	HMIYCABWIFIAN51	–
<b>4G cellular interface for North America</b>	Mini PCIe GPRS 4G for North America frequencies. Kit including SIM card holder and external antenna	Yes	–	–	HMIYMIN4GUS1	–
<b>4G cellular interface for Europe and Asia</b>	Mini PCIe GPRS 4G for Europe and Asia frequencies. Kit including SIM card holder and external antenna	Yes	–	–	HMIYMIN4GEU1	–
<b>Mini PCIe interface DVI-I for iPC</b>	Mini PCIe Graphic video card Full HD 1920 x 1080, with DVI-I connector on an external interface (providing both dual digital and analog signals)	Yes	–	–	HMIYMINDVII1	–
<b>Mini PCIe interface 2VGA + DVI-D</b>	Mini PCIe Graphic video card Full HD 1920 x 1080, with 2x VGA connectors on a single external interface and 1x DVI-D connector in a second external interface	Yes	–	–	HMIYMINVGADVID1	–
<b>Mini PCIe interface audio for iPC</b>	Mini PCIe audio card and one external interface with speaker OUT, Line IN and Mic IN connectors	Yes	–	–	HMIYMINAUD21	–
<b>Mini PCIe interface to Display Adapter</b>	Interface transmitter (2)	Yes	–	–	HMIYMINDP1	–

(1) Require Expansion kit (HMIYPADPSOSTO1) for HMIPSO Optimized S-Panel PC.  
 (2) For more information, see long distance multi-display adapter on page 4/31.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIPSO/HMIPSP/HMIPEP Panel PCs

#### Separate components

2



HMIYP552PS11



HMIYPSMAC1



HMIYEM1211

Separate components (continued)						
Description	Details	Compatible with Magelis HMIP			Reference	Weight kg/lb
		Optimized	Performance	Enclosed Performance		
		HMIPSO	HMIPSP	HMIPEP		
<b>Accessories</b>						
<b>USB key blank for iPC recovery</b>	Spare USB memory key blank (1)	All models			HMIYUSBBK111	–
<b>Maintenance kit for HMIPSP PCs</b>	Includes: ■ Screws and dampers for HDD/SSD ■ Screws and clamps for panel mounting ■ Power connector and sticker ■ CFast card pull-out ■ Rubbers for W15" and W19" mounting ■ Bracket, screws, and dampers for mini PCIe	–	Yes		HMIYPMKTPSP1	–
<b>Maintenance kit for HMIPSO PCs</b>	Includes: ■ Screws and dampers for HDD/SSD ■ Screws and clamps for panel mounting ■ Power connector and sticker ■ CFast card pull-out ■ Rubbers for W10" and W15" mounting ■ Bracket, screws, and dampers for mini PCIe	Yes	–		HMIYPMKTPSO1	–
<b>Removable protective sheet</b>	Set of 5 protective sheets for W10"	Yes	–		HMIYP552PS11	–
	Set of 5 protective sheets for W15"	Yes	–		HMIYP752PS11	–
	Set of 5 protective sheets for W19"	–	Yes		HMIYP952PS11	–
<b>AC/DC power adapter 110/220 V ~ to 24 V ∴</b>	AC/DC power adapter, provided with US and European power cord	–	Yes	–	HMIYPSMAC1	–
<b>AC/DC power adapter 110/220 V ~ to 24 V ∴</b>	External AC power adapter which can be mounted on the rear side of HMIPSO, provided with US and European power cord	Yes	–		HMIYPSOMAC1	–
<b>M12 connectors</b>	Set of 5 M12 connectors for Enclosed Panel PC	–		Yes	HMIYEM1211	–
<b>M12 cables</b>	Set of 5 cables with M12 connectors on one side to Enclosed Panel PC, and DC/USB/COM/2x LAN connectors on the other side	–		Yes	HMIYCABM1211	–
<b>Expansion kit</b>	Optional expansion kit offering 1 slot for storage drive HDD/SSD and 1 mini PCIe slot with 1 optional interface plate	Yes	–		HMIYPADPSOSTO1	–
<b>VESA mounting kit</b>	VESA mounting kit for HMIPSO W10"	Yes	–		HMIYPVESAPSO551	–
	VESA mounting kit for HMIPSO W15"	Yes	–		HMIYPVESAPSO751	–
<b>Software (2)</b>						
<b>EcoStruxure Operator Terminal Expert Run Time license</b>	Converts the 21-day trial version of EcoStruxure Operator Terminal Expert Run Time Demo to an unlimited license	All models that support EcoStruxure Operator Terminal Expert HMI software			HMIRTWCZLSPAZZ (Digital) HMIRTWCZLSPMZZ (Paper)	–
<b>EcoStruxure Secure Connect Advisor</b>	For HMI secure remote access	All models that support EcoStruxure Secure Connect Advisor			VJOCNT (3)	–

(1) USB key including restore image for recovery is supplied with each unit. The spare blank key is only necessary if the default key supplied with the unit is lost.

(2) EcoStruxure Machine SCADA Expert available with Configured-to-Order (see page 2/23).

(3) For more information, please refer to "EcoStruxure Secure Connect Advisor catalog" available in SE.com.

#### Configured-To-Order Magelis HMIPSO/HMIPSP/HMIPEP Panel PCs

"Configured-To-Order" industrial PCs offer a vast number of configuration combinations for Magelis iPCs with certifications. The Schneider Electric Customer Care Center can help user configure the right Magelis iPC based on your automation application and provide a quotation. A web configurator <http://www.hmisource.com/wwipcc> is also available to help user easily build the configuration (password = Magelis).

Our Customer Care Center or the Web configurator will provide the complete parts list for the configured Magelis S-Panel PC and a configuration code that will be the part number of the Magelis iPC.

#### Ordering procedure for a configured Magelis Panel PC

If user have built your Magelis iPC configuration with the Web configurator:

- 1 Please forward the e-mail received from the Web configurator to our Customer Care Center. This e-mail contains a PDF file with your configuration description, and part number code.
- 2 If required, specify the reference root part number GCR\_HMIPCCP2.

If user cannot access the Magelis iPC Web configurator:

- 3 Please contact our Customer Care Center and state the reference root part number GCR\_HMIPCCP2.
- 4 Configure your Magelis Panel PC (see table below) and get your quote with the support of our Customer Care Center.
- 5 Confirm your order.

#### Configured-To-Order options for Magelis HMIPSO/HMIPSP/HMIPEP Panel PCs

Option	Description
Panel PC	S-Panel PC Optimized DC 4 GB RAM W10" - WXGA
	S-Panel PC Optimized DC 4 GB RAM W15" - FWXGA
	S-Panel PC Performance DC 8 GB RAM W15" - WHD
	S-Panel PC Performance DC 8 GB RAM W19" - WHD
	Enclosed Panel PC Performance DC 8 GB RAM W19" - FWXGA
Fanless ULV CPU	Performance Core i3-4010U dual-core
	Optimized Atom-E3827 dual-core
Power supply	DC (1)
Windows operating system	None
	WES7 Premium SP1 (64-bit Multi-language)
	Win7 Ultimate FES SP1 (64-bit Multi-language)
	Win 8.1 Industry (64-bit Multi-language)
	Windows 10 IoT Enterprise (64-bit Multi-language)
Main storage device for operating system	None
	CFast 32 GB
	HDD 500 GB/1 TB
	SSD 128 GB/256 GB
Optional interfaces (pre-mounted)	None
	NVRAM
	2 RS-422/485 Isolated/4 RS-422/485
	2 RS-232 Isolated/4 RS-232
	16 DI/8 DO
	Audio
	Video (DVI and VGA ports)
	Cellular 3G/4G
	Wireless LAN + 2 antennas
	2 CANopen/CAN bus
	Profibus DP Master with NVRAM
Software bundle	None
	EcoStruxure Operator Terminal Expert Run Time unlimited license
	EcoStruxure Machine SCADA Expert 1500 tags Run Time license
	EcoStruxure Machine SCADA Expert 4000 tags Run Time license
	EcoStruxure Machine SCADA Expert 64000 tags Run Time license

#### Equivalent product table

Legacy Magelis iPC		Replaced by Magelis iPC		Compatibility	
Description	Reference	Description	Reference	Cut-out for flush mounting	Screen definition
<b>Magelis Panel PC</b>		<b>Magelis HMIP S-Panel PC</b>			
Magelis Optimum 15" Panel PC, CFast card, 24 V ---	HMIPVC7D0E01	Magelis Optimized W15" S-Panel PC with aluminium bezel, CFast card, WES 7 Premium SP1, Multi-touch, 24 V ---	HMIPSOC752D1W01		
Magelis Optimum 15" Panel PC, CFast card, 24 V ---	HMIPVC7D0E01				
Magelis Optimum 10" Panel PC, CFast card, WES 2009, 24 V ---	HMIPWC5D0E01A	Magelis Optimized W10" S-Panel PC with aluminium bezel, CFast card, WES 7 Premium SP1, Multi-touch, 24 V ---	HMIPSOC552D1W01		
Magelis Optimum 10" Panel PC, CFast card, WES 2009, 24 V ---	HMIPWC5D0E01				
		<b>Cut-out and screen definition</b>	Identical Different		

(1) AC power supply with external AC/DC power adapter HMIYSPMAC1.



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## Magelis HMIBSC Edge Box Core

- Selection guide* ..... page 3/2
- **Presentation**..... page 3/4
- **Description**..... page 3/5
- **References**
  - Magelis HMIBSC Edge Box Core ..... page 3/6
  - Drives ..... page 3/6
  - Separate Components
    - Accessories..... page 3/6
    - Interfaces ..... page 3/7

# Industrial PCs

## Magelis™ iPCs for automation

### Magelis Simple Box

### HMIBSC Edge Box Core

Type of Magelis Edge Box

Magelis HMIBSC Edge Box Core



<b>Fanless</b>	
<b>Mounting</b>	Box Panel PC
<b>CPU</b>	Processor Expansion slots Storage Main drive Slots RAM/MRAM Hot-swap RAID HDD and battery backup
<b>Cybersecurity encryption</b>	
<b>Operating system</b>	
<b>Conformal coating</b>	
<b>Supply voltage</b>	
<b>Power consumption</b>	
<b>Interface</b>	Ethernet Serial ports USB Embedded I/O Video interface WLAN embedded Antenna connectors Watchdog timer
<b>Reset button and buzzer</b>	
<b>Overall dimensions (W x H x D)</b>	
<b>Temperature</b>	During operation During storage
<b>Vibration resistance</b>	During operation
<b>Standards and certifications</b>	
<b>Software, IIoT and Cybersecurity</b>	
<b>References</b>	
<b>Page</b>	
<b>Configured-To-Order</b>	

★★★★★
Wall / book / DIN rail / Flat
No
Qualcomm ARM Cortex-A53 Quad core up to 1.2 GHz
1x full-size slot with optional interface (1), 1x M.2 slot (not for storage) (2)
eMMC 8 GB (soldered and not user-expandable)
SD 3.0 (supports standard SD 32 mm x 24 mm , SDHC, SDXC)
1 GB DDR3 (not user-expandable)
-
TPM module (pre-installed)
Linux Yocto
No
12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1
16 W
2x RJ45 Ethernet 10/100/1,000 Mbps
1x RS-232 (default) and 1x RS-422/485 (software setting), non-isolated
2x USB 2.0
8x GPIO (Digital General Purpose I/O)
1x HDMI (for configuration only)
Wi-Fi WCN3620 802.11 b/g/n 2.4 GHz (4), WCN3620 Bluetooth 4.1 (4)
1x for WLAN antenna, 1x for GPRS antenna
Timer with 255 levels/intervals, programmable, 1...255 s
Yes
157 x 150 x 46 mm/6.18 x 5.91 x 1.81 in. (with no expandable slots)
Conforming to EN/IEC 60068-2-30: 0...50 °C/32...122 °F (5)
Conforming to IEC 61000-4/ EN 55011: -40...85 °C/-40...185 °F
Conforming to IEC 60664-1: 2 g from 5...500 Hz
CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)
Secure password boot and Node-RED
<b>HMIBSCEA53D1L0T</b>
3/6
See configured Magelis Modular Box PC on page 4/32

(1) For mini PCIe card, cellular 4G or 8x analog input interface 0-10 V.

(2) For M.2 card, 2x analog input interface 0-10 V / 4-20 mA.

(3) Cybersecurity TPM optional module HMIYBINLTPM201 for hardware encryption with Linux.

(4) Radio Frequency Certifications:

- RED for Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK
- FCC RF for USA
- IC for Canada
- SRRC for China (pending)
- RCM for Australia, New Zealand
- Anatel for Brazil (pending)
- TEC for India (pending)

(5) Except with optional interface installed: limited to 45 °C/113 °F.

Magelis HMIBSC Edge Box Core



★★★★★	
Wall / book / DIN rail / Flat	
No	
Qualcomm ARM Cortex-A53 Quad core up to 1.2 GHz	
1x full-size slot with optional interface (2)	
eMMC 8 GB (soldered and not user-expandable)	eMMC 64 GB (soldered and not user-expandable)
SD 3.0 (supports standard SD 32 mm x 24 mm , SDHC, SDXC)	
1 GB DDR3 (not user-expandable)	2 GB DDR3 (not user-expandable)
-	-
Connector for TPM module (3)	
Linux Yocto	
No	Yes
12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1	
16 W	
2x RJ45 Ethernet 10/100/1,000 Mbps	
1x RS-232 (default) and 1x RS-422/485 (software setting), non-isolated	
2x USB 2.0	
8x GPIO (Digital General Purpose I/O)	
1x HDMI (for configuration only)	
Wi-Fi WCN3620 802.11 b/g/n 2.4 GHz (4), WCN3620 Bluetooth 4.1 (4)	
1x for WLAN antenna, 1x for GPRS antenna	
Timer with 255 levels/intervals, programmable, 1...255 s	
Yes	
157 x 150 x 46 mm/6.18 x 5.91 x 1.81 in. (with no expandable slots)	
Conforming to EN/IEC 60068-2-30: 0...50 °C/32...122 °F (5)	
Conforming to IEC 61000-4/ EN 55011: -40...85 °C/-40...185 °F	
Conforming to IEC 60664-1: 2 g from 5...500 Hz	
CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)	
Secure password boot and Node-RED	
<b>HMIBSCEA53D1L01</b>	<b>HMIBSCEA53D1L0A</b>
3/6	
See configured Magelis Modular Box PC on page 4/32	



Magelis HMIBSC

### Presentation

Magelis HMIBSC connects OT (Operational Technology) in the field to IT (Information Technology) for an Industrial Ethernet of Things. With built-in Node-RED, WiFi, and Bluetooth, and a Linux operating system running on a quad-core Qualcomm ARM CPU, it is well adjusted to wire the Internet of Things.

eMMC storage is available by default and can be expanded with an SD card. The two standard Ethernet ports allow OT and IT communications to be separated if necessary. The secure password boot and TPM encryption module afford a high level of cybersecurity by design. The commissioning is made easier and safer with its own HDMI port that connects to an optional screen.

The embedded GPIO and optional cards for analog I/O allow dedicated sensors to be connected to Magelis HMIBSC. The optional cellular 4G card of the Magelis iPC range is supported on Magelis HMIBSC for remote connection to IT systems. All these options can be user mounted or Configured-To-Order (see page 4/32).

### Overview of the offer

#### Magelis HMIBSC Edge Box Core

The Magelis HMIBSC offer comprises 3 product references, each equipped with:

- Fanless Qualcomm ARM Cortex-A53 quad-core processor up to 1.2 GHz
- Default WLAN: 1x WiFi, 1x Bluetooth
- Connection ports: 2x USB 2.0, 1x COM (RS-232/422/485), 2x Gigabit Ethernet, 1x Display port, 1x HDMI
- Expansion slots: 1x full-size mini PCIe slot with optional interface (2), 1x M.2 slot for extension (not for storage) (3), 1x SD card slot
- Power supply: 12-24 V  $\overline{\text{---}}$ , AC with optional external adapter HMIYPSOMAC1

The operating systems, storage devices, and expansion slots are as follows:

- **HMIBSCEA53D1L0T**
  - Operating system: Linux Yocto with secure password boot
  - RAM: 1 GB DDR3 (1)
  - Default storage device: 8 GB eMMC
  - Software: Node-RED
  - Default TPM module for encryption
- **HMIBSCEA53D1L01**
  - Operating system: Linux Yocto with secure password boot
  - RAM: 1 GB DDR3 (1)
  - Default storage device: 8 GB eMMC
  - Software: Node-RED
  - Connector for optional TPM module
- **HMIBSCEA53D1L0A**
  - Operating system: Linux Yocto with secure password boot
  - RAM: 2 GB DDR3 (1)
  - Default storage device: 64 GB eMMC
  - Software: Node-RED
  - Conformal coating
  - Connector for optional TPM module

(1) Memory is not user-expandable.

(2) For mini PCIe card, cellular 4G or 8x analog input interface 0-10 V.

(3) For M.2 card, 2x analog input interface 0-10 V / 4-20 mA.

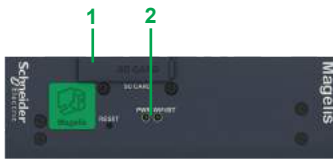
## Description

# Industrial PCs

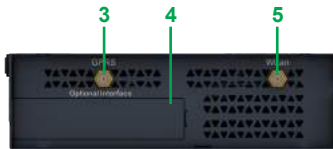
Magelis iPCs for automation

Magelis Edge Box

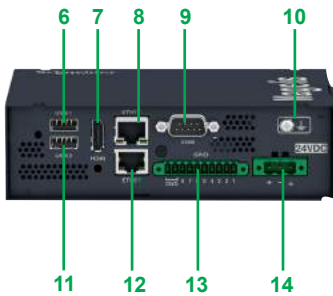
HMIBSC Edge Box Core



Front view of Magelis Simple IIoT Core



Top view of Magelis Simple IIoT Core



Underside view of Magelis Simple IIoT Core

### Description

Magelis HMIBSC

#### Front view

- 1 SD card slot (1)
- 2 LEDs and reset button

#### Top view

- 3 SMA connector for the GPRS/4G external antenna
- 4 Optional interface
- 5 SMA connector for the WLAN external antenna

#### Underside view

- 6 USB1 (USB 2.0)
- 7 HDMI port
- 8 ETH1 (10/100/1000 Mbps) IEEE1588
- 9 COM port RS-232/422/485 (non-isolated) (2)
- 10 Ground connection pin
- 11 USB2 (USB 2.0)
- 12 ETH2 (10/100/1000 Mbps) IEEE1588
- 13 GPIO
- 14 DC power connector

(1) The default OS can be restored with the SD card.

(2) RS-232 (default setting) and RS-422/485 (software setting).



# Industrial PCs

Magelis iPCs for automation  
Magelis Edge Box  
HMIBSC Edge Box Core



IPC\_61054\_CPINGU18002  
HMIBSCEA53D1L0T

### Magelis HMIBSC Edge Box Core

Qualcomm ARM Cortex-A53 quad-core processor up to 1.2 GHz/24 V  $\overline{\text{DC}}$  supply voltage (1)

Mini PCIe slot	Operating system	Software	Storage disk	DDR3 RAM (2)	Reference	Weight kg/lb
<b>With 2 expansion slots</b>						
1x mini PCIe, full-size	Linux Yocto	Node-RED	8 GB eMMC	1 GB	HMIBSCEA53D1L0T (3)	1.00/2.20
					HMIBSCEA53D1L01	1.00/2.20
			64 GB eMMC	2 GB	HMIBSCEA53D1L0A (4)	1.00/2.20

3



PF143989A  
HMIYMMAC1

### Drives

Description	Compatible with Magelis HMIBSC	Reference	Weight kg/lb
SD card industrial grade 16 GB for HMIBSC	All models	HMIYSD016C1	-
SD card industrial grade 64 GB for HMIBSC	All models	HMIYSD064C1	-

### Separate Components

#### Accessories

Description	Details	Compatible with Magelis HMIBSC	Reference	Weight kg/lb
Maintenance kit for HMIBSC	Includes: screws, USB holder, power connector, rubber	All models	HMIYBMKTBSC1	-
TPM 2.0 cybersecurity module for HMIBSC	TPM cybersecurity module for HMIBSC IloT Core Box Linux	All models	HMIYBINLTPM201	-
1x WiFi/Bluetooth antenna for Magelis iPC		All models	HMIYCABWIFIAN511	-
AC power supply (60 W)	AC power adapter (60 W)	All models	HMIYPSOMAC1	-
AC power supply (100 W)	Modular AC power adapter (100 W)	All models	HMIYMMAC1	-
UPS battery	UPS battery for HMIBSC (no cables)	All models	HMIYMUPSKT1	-
UPS cable	UPS cables for HMIBSC (3 m/9.84 ft)	All models	HMIYCABUPS31	-

(1) AC with additional power supply module.

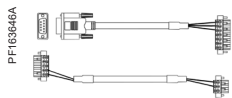
(2) Memory is not user-expandable.

(3) With default TPM module.

(4) With conformal coating.



PF143959A  
HMIYMUPSKT1



PF163646A  
HMIYCABUPS31

# Industrial PCs

## Magelis iPCs for automation

### Magelis Edge Box

### HMIBSC Edge Box Core



#### Separate Components (continued)

##### Interfaces

Description	Details	Compatible with Magelis HMIBSC	Reference	Weight kg/lb
<b>Mini PCIe 8x analog input interface 0-10 V</b>	Mini PCIe with 8x analog inputs 0-10 V	All models	HMIYMIN8AI1	–
<b>M.2 2x analog input interface 0-10 V/4-20 mA</b>	M.2 with 2x analog inputs 0-10 V or 4-20 mA selected by switch.	All models	HMIYBIN2AIM21	–
<b>Cellular 4G interface for North America</b>	Mini PCIe GPRS 4G for North America frequencies. Kit including SIM card holder and external antenna	All models	HMIYMIN4GUS1	–
<b>Cellular 4G interface for Europe and Asia</b>	Mini PCIe GPRS 4G for Europe and Asia frequencies. Kit including SIM card holder and external antenna	All models	HMIYMIN4GEU1	–

##### Accessories

<b>Cable for 4G card in HMIBSC 5 m/16.40 ft</b>	Remote cable for 4G card in IloT Box Core HMIBSC (5 m/16.40 ft)	All models	HMIYCAB4GAN51	–
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# Magelis HMIBM Edge Box/Modular Box PC and HMIDM Modular Display

## Magelis HMIBM Edge Box/Modular Box PC

**Selection guide** ..... page 4/2

■ **HMIBMI Basic**

- Presentation ..... page 4/10
- Description ..... page 4/11
- References ..... page 4/18

■ **HMIBMO Optimized**

- Presentation ..... page 4/12
- Description ..... page 4/13
- References ..... page 4/18

■ **HMIBMU Universal and HMIBMP Performance**

- Presentation
  - Magelis HMIBMU Universal ..... page 4/14
  - Magelis HMIBMP Performance ..... page 4/15
- Description
  - Magelis HMIBMU Universal and HMIBMP Performance, 2 expansion slots ..... page 4/16
  - Magelis HMIBMU Universal and HMIBMP Performance, 4 expansion slots ..... page 4/17
- References ..... page 4/18
  - Magelis HMIBMU Universal ..... page 4/19
  - Magelis HMIBMP Performance ..... page 4/20
  - Ready-to-run Software, IIoT and Cybersecurity ..... page 4/18
- Separate components
  - Drives ..... page 4/21
  - Accessories ..... page 4/21
  - Software and Secure remote access ..... page 4/22
  - Interfaces ..... page 4/22
- Configured-To-Order: Magelis HMIBM Modular Box PC and HMIDM Modular Display ..... page 4/32
- Equivalent product table ..... page 4/33

## Magelis HMIDM Modular Display

**Selection guide** ..... page 4/24

■ **Presentation**

- Overview of the offer
  - Magelis HMIDM Modular Display ..... page 4/26
  - Architecture ..... page 4/26

■ **References**

- Magelis HMIDM Modular Displays ..... page 4/27
- Separate components ..... page 4/27
- Configured-To-Order: Magelis HMIBM Modular Box PC and HMIDM Modular Display ..... page 4/32
- Equivalent product table ..... page 4/33

## Magelis HMIDAD Display Adapter

- **Presentation** ..... page 4/28
- **Description** ..... page 4/28
- **Architecture** ..... page 4/28
- **Configuration** ..... page 4/29
- **Example of displays connected to Magelis HMIBMO** ..... page 4/30
- **References** ..... page 4/31





# Industrial PCs


## Magelis iPCs for automation

### Magelis Edge Box and Modular Box PC

#### HMIBMI Basic

Type of Magelis Edge Box and iPC		Magelis HMIBMI Edge Box Modular	Magelis HMIBMI Basic Modular Box PC
			
<b>Fanless</b>		★★★★★	
<b>Mounting</b>	Box PC Panel PC	HMIBM Box wall/book/ DIN rail/ Flat HMIBM Box + associated HMIDM Display	
<b>CPU</b>	Processor Mini PCIe expansion slots Storage Main drive RAM Battery backup	Intel Atom Apollo Lake E3930 dual-core 1.8 GHz 1x full-size slot with optional interface 64 GB eMMC (soldered and not user-expandable) 64 GB eMMC (soldered and not user-expandable) 4 GB DDR3 (not user-expandable) Optional	
<b>Cybersecurity encryption</b>		TPM 2.0 module (pre-installed)	Connector for TPM 2.0 module (5)
<b>Operating system</b>		Windows 10 IoT Enterprise LTSB-2016 (64-bit)	Windows 10 IoT Enterprise LTSB-2016 (64-bit)
<b>Conformal coating</b>		No	
<b>Supply voltage</b>		12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1	
<b>Power consumption</b>		20 W	
<b>Interface</b>	Ethernet Serial ports USB Video Interface Resolution Antenna connectors Watchdog timer	2x RJ45 Ethernet 10/100/1,000 Mbps 1x RS-232/422/485 non isolated 1x USB 2.0, 1x USB 3.0 1x display port Up to 3200 x 2000 at 60 Hz 2x for WLAN antenna, 1 for GPRS antenna Timer with 255 levels/intervals, programmable, 1...255 s	
<b>Reset button and buzzer</b>		Yes	
<b>Overall dimensions (W x H x D)</b>		187 x 150 x 46 mm/7.36 x 5.91 x 1.81 in.	
<b>Temperature</b>	During operation During storage	Conforming to EN/IEC 60068-2-30: 0...50 °C /32...122 °F (6) Conforming to IEC 61000-4/ EN 55011:-20...60 °C /-4...140 °F	
<b>Vibration resistance</b>	During operation	Conforming to IEC 60664-1: 2 g from 5...500 Hz	
<b>Standards and certifications</b>		CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)	
<b>Software, IloT and Cybersecurity</b>		EcoStruxure Operator Terminal Expert Run Time Demo (1), McAfee whitelisting (2), EcoStruxure Secure Connect Advisor (3), Secure password boot UEFI, Node-RED pre-installed Node-RED (4)	
<b>References</b>		<b>HMIBMIEA5DD1E01</b>	<b>HMIBMIEA5DD1101</b>
<b>Page</b>		4/18	
<b>Configured-To-Order</b>		See configured Magelis Modular Box PC on page 4/32	

(1) To be installed and activated by unlimited license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).  
 (2) McAfee whitelisting to be installed and requires licence sticker HMIYYMACWLIOT1 to be applied.  
 (3) To be installed and activated with subscription.  
 (4) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IloT Box" option to be selected).  
 (5) For Cybersecurity TPM, optional module HMIYMINATPM201 for hardware encryption with Windows bit-locker.  
 (6) Except with optional interface installed: limited to 45 °C/113 °F.

Magelis HMIBMI Basic Modular Box PC			
			
★★★★★			
HMIBM Box wall/book/ DIN rail/ Flat HMIBM Box + associated HMIDM Display			
Intel Atom Apollo Lake E3930 dual-core 1.8 GHz 1x full-size slot with optional interface 128 GB eMMC (soldered and not user-expandable) 64 GB eMMC (soldered and not user-expandable) 128 GB eMMC (soldered and not user-expandable) 4 GB DDR3 (not user-expandable) Optional			
Connector for TPM 2.0 module (5)			
Windows 10 IoT Enterprise LTSB-2016 (64-bit)		No	No
No		Yes	
12-24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1			
20 W			
2x RJ45 Ethernet 10/100/1,000 Mbps 1x RS-232/422/485 non isolated 1x USB 2.0, 1x USB 3.0 1x display port Up to 3200 x 2000 at 60 Hz 2x for WLAN antenna, 1x for GPRS antenna Timer with 255 levels/intervals, programmable, 1...255 s			
Yes			
187 x 150 x 46 mm/7.36 x 5.91 x 1.81 in.			
Conforming to EN/IEC 60068-2-30: 0...50 °C /32...122 °F (6) Conforming to IEC 61000-4/ EN 55011:-20...60 °C /-4...140 °F			
Conforming to IEC 60664-1: 2 g from 5...500 Hz			
CE, cULus ITE (UL IT 60950, CSA IT 60950), RCM, EAC, CCC, FCC (part 15 EMC Class A)			
EcoStruxure Operator Terminal Expert Run Time Demo (1), McAfee whitelisting (2), EcoStruxure Secure Connect Advisor (3), Secure password boot UEFI, Node-RED (4)			
<b>HMIBMIEA5DD110L</b>	<b>HMIBMIEA5DD1001</b>	<b>HMIBMI0A5DD100A</b>	
4/18			
See configured Magelis Modular Box PC on page 4/32			



(1) To be installed and activated by unlimited license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).  
 (2) McAfee whitelisting to be installed and requires licence sticker HMIYYMACWLIOT1 to be applied.  
 (3) To be installed and activated with subscription.  
 (4) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IloT Box" option to be selected).  
 (5) For Cybersecurity TPM, optional module HMIYMINATPM201 for hardware encryption with Windows bit-locker.  
 (6) Except with optional interface installed: limited to 45 °C/113 °F.

# Industrial PCs



## Magelis iPCs for automation

### Magelis Edge Box and Modular Box PC

#### HMIBMO Optimized

Type of Magelis Edge Box and iPC		Magelis HMIBMO Edge Box Modular	Magelis HMIBMO Optimized Modular Box PC (regular)
			
<b>Fanless</b>		★★★★★	
<b>Mounting</b>	Box PC Panel PC	HMIBM Box wall/book/ DIN rail/ Flat HMIBM Box + associated HMIDM Display	
<b>CPU</b>	Processor Mini PCIe expansion slots with interface	Intel Atom Apollo Lake E3930 dual-core 1.8 GHz 1x full-size slot without optional interface	
	Storage Main drive Slots	M.2 SSD 64 GB (2) M.2	
	RAM Battery backup	4 GB DDR3 (not user-expandable) Optional	
<b>Cybersecurity encryption</b>		TPM 2.0 module (pre-installed)	Connector for TPM 2.0 module
<b>Operating system</b>		Windows 10 IoT Enterprise LTSC-2016 (64-bit)	Windows 10 IoT Enterprise LTSC-2016 (64-bit) + TPM 2.0
<b>Conformal coating</b>		No	
<b>Supply voltage</b>		12-24 V $\square$ or 100...240 V $\sim$ with power adapter HMIYPSOMC1	
<b>Power consumption</b>		25 W	
<b>Interface</b>	Ethernet Serial ports USB Video Interface Resolution	2x RJ45 Ethernet 10/100/1,000 Mbps "I210 IEEE1588" 1x RS-232/422/485 non isolated 2x USB 2.0, 2x USB 3.0 2x display ports Up to 3200 x 2000 at 60 Hz 2x for WLAN antenna, 1x for GPRS antenna Timer with 255 levels/intervals, programmable, 1...255 s	
<b>Reset button and buzzer</b>		Yes	
<b>Overall dimensions (W x H x D)</b>		187 x 150 x 38 mm/7.36 x 5.91 x 1.50 in.	
<b>Temperature</b>	During operation During storage	Conforming to EN/IEC 60068-2-30: 0...55 °C/32...131 °F (8) Conforming to IEC 61000-4/ EN 55011:-30...70 °C/-22...158 °F	
<b>Vibration resistance</b>	During operation	Conforming to IEC 60664-1: 2 g from 5...500 Hz	
<b>Standards and certifications</b>		CE, cULus industrial control (UL 61010-2-201, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), RCM, CCC, CE ATEX and IECEx HazLoc 3GD Zone 2/22, EAC	
<b>Software, IIoT and Cybersecurity</b>		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Machine SCADA Expert Run Time (4), McAfee whitelisting (5), EcoStruxure Secure Connect Advisor (6), Secure password boot UEFI Node-RED pre-installed Node-RED (7)	
<b>References</b>		<b>HMIBMOMA5DD1E01</b>	<b>HMIBMOMA5DD1101</b>
<b>Page</b>		4/18	
<b>Configured-To-Order</b>		See configured Magelis Modular Box PC on page 4/32	

(1) M.2 SSD 1,5 Millions H. MTBF, 3 Years manufacturer warranty.  
 (2) Requires HMIYBADHDDMO1 adapter.  
 (3) To be installed and activated by unlimited license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).  
 (4) With Configured-To-Order Magelis Modular Box PC.  
 (5) McAfee whitelisting to be installed and requires licence sticker HMIYYMACWLIOT1 to be applied.  
 (6) To be installed and activated with subscription.  
 (7) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IIoT Box" option to be selected).  
 (8) Except with optional interface or HDD installed: limited to 45 °C/113 °F.

Magelis HMIBMO Optimized Modular Box PC (regular)	Magelis HMIBMO Optimized Modular Box PC (expandable)		
			
★★★★★			
HMIBM Box wall/book/ DIN rail/ Flat HMIBM Box + associated HMIDM Display			
Intel Atom Apollo Lake E3930 dual-core 1.8 GHz			
1x full-size slot without optional interface	1x full-size slot with optional interface		
No	M.2 SSD 250 GB (2)	No	
M.2	M.2, 1x HDD/SSD slot (3) with optional interface slot		
4 GB DDR3 (not user-expandable)			8 GB DDR3 (not user-expandable)
Optional			
Connector for TPM 2.0 module			
No	Windows 10 IoT Enterprise LTSC-2016 (64-bit)	No	
No	Yes		
12-24 V $\square$ or 100...240 V $\sim$ with power adapter HMIYPSOMAC1			
25 W			
2x RJ45 Ethernet 10/100/1,000 Mbps "I210 IEEE1588" 1x RS-232/422/485 non isolated 2x USB 2.0, 2x USB 3.0 2x display ports Up to 3200 x 2000 at 60 Hz 2x for WLAN antenna, 1x for GPRS antenna Timer with 255 levels/intervals, programmable, 1...255 s			
Yes			
187 x 150 x 38 mm/7.36 x 5.91 x 1.50 in. 187 x 150 x 54 mm/7.36 x 5.91 x 2.13 in.			
Conforming to EN/IEC 60068-2-30: 0...55 °C/32...131 °F (8) Conforming to IEC 61000-4/ EN 55011:-30...70 °C/-22...158 °F			
Conforming to IEC 60664-1: 2 g from 5...500 Hz			
CE, cULus industrial control (UL 61010-2-201, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), RCM, CCC, CE ATEX and IECEx HazLoc 3GD Zone 2/22, EAC			
EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Machine SCADA Expert Run Time (4), McAfee whitelisting (5), EcoStruxure Secure Connect Advisor (6), Secure password boot UEFI, Node-RED (7)			
<b>HMIBMO0A5DD1001</b>	<b>HMIBMOMA5DDF10L</b>	<b>HMIBMO0A5DDF101</b>	<b>HMIBMO0A5DDF10A</b>
4/18			
See configured Magelis Modular Box PC on page 4/32			

(1) M.2 SSD 1,5 Millions H. MTBF, 3 Years manufacturer warranty.  
 (2) Requires HMIYBADHDDMO1 adapter.  
 (3) To be installed and activated by unlimited license HMIRWCZLSPAZZ (Digital) or HMIRWCZLSPMZZ (Paper).  
 (4) With Configured-To-Order Magelis Modular Box PC.  
 (5) McAfee whitelisting to be installed and requires licence sticker HMIYYMACWLIOT1 to be applied.  
 (6) To be installed and activated with subscription.  
 (7) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IIoT Box" option to be selected).  
 (8) Except with optional interface or HDD installed: limited to 45 °C/113 °F.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

### HMIBMU Universal

Type of Magelis IIoT Box and iPC

Magelis HMIBMU Universal Modular Box PC



<b>Fanless</b>	
<b>Mounting</b>	Box PC Panel PC
<b>CPU</b>	Processor Mini PCIe expansion slots Storage Main drive Slots (8) RAM/MRAM Hot-swap RAID HDD and battery backup
<b>Cybersecurity encryption</b>	
<b>Operating system</b>	WES 7 Premium SP1 (64-bit) Windows 10 IoT Enterprise (64-bit Multi-language)
<b>Conformal coating</b>	
<b>Supply voltage</b>	
<b>Power consumption</b>	
<b>Interface</b>	Ethernet Serial ports USB Video Interface Resolution Antenna connectors Watchdog timer
<b>Reset button and buzzer</b>	
<b>Overall dimensions (W x H x D)</b>	With 2 slots (2 mini PCIe) With 4 slots (2 mini PCIe + 2 PCI/PCIe)
<b>Temperature</b>	During operation During storage
<b>Vibration resistance</b> During operation	
<b>Standards and certifications</b>	
<b>Software, IIoT and Cybersecurity</b>	
<b>References</b>	No PCIe/PCI expansion slots 1 PCIe (x4) + 1 PCI 2 PCI 1 PCIe (x1) + 1 PCIe (x4)
<b>Page</b>	
<b>Configured-To-Order</b>	

★★★★★ (1)	
Box PC: HMIBM Box wall/book (5)/flat (6) mounting Panel PC: HMIBM Box + associated HMIDM Display	
Intel® Celeron® 2980U dual-core (1.6 GHz, low power) 2x full-size slots with 2x optional interface slots	
CFAST card ≥ 32 GB	SSD ≥ 128 GB (2)
1x CFAST card slot and 2x HDD/SSD slots (hot-swappable)	
4 GB DDR3 (not user-expandable)/512 KB non-volatile RAM with 300 KB for user	
Optional	
Connector for TPM 1.2 module (9)	
WES 7 Premium SP1 (64-bit)	Windows 10 IoT Enterprise (64-bit Multi-language)
-	
18...36 V $\overline{\text{---}}$ or 100...240 V $\overline{\text{~}}$ supply with modular power adapter HMIYMMAC1	
17.8 W typical, 33.6 W max.	
2x RJ45 Ethernet 10/100/1,000 Mbps "i210 IEEE1588"	
1x RS-232/422/485 isolated with auto flow control	
2x USB 2.0, 2 USB 3.0	
2x display ports (1 port is disabled when HMIDM Modular Display is mounted on the front)	
Up to 3200 × 2000 at 60 Hz	
2x for WLAN antenna, 1x for GPRS antenna	
Timer with 255 levels/intervals, programmable, 1...255 s	
Yes	
254 × 207 × 65.2 mm/10 × 8.15 × 2.57 in. 254 × 207 × 103.2 mm/10 × 8.15 × 4.06 in.	
Conforming to EN/IEC 60068-2-30 for wall/book mounting: 0...55 °C/32...131 °F (5), for flat mounting: 50 °C/122 °F (6)	
Conforming to IEC 61000-4/ EN 55011: -30...70 °C/-22...158 °F	
Conforming to IEC 60664-1: 2 g from 5...500 Hz	
CE, cULus industrial control (UL 61010-2-201, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), RCM, CCC, CE ATEX and IECEx HazLoc 3GD Zone 2/22, EAC	
EcoStruxure Operator Terminal Expert Run Time Demo (3)	EcoStruxure Operator Terminal Expert Run Time Demo (3), Citect SCADA DVD (4)
EcoStruxure Machine SCADA Expert Run Time (4), Node-RED and McAfee whitelisting (7), EcoStruxure Secure Connect Advisor (10)	
HMIBMUCI29D2W01	HMIBMUSI29D2801
HMIBMUCI29D4W01	HMIBMUSI29D4801
-	-
-	-
4/19	
See configured Magelis Modular Box PC on page 4/32	

(1) HMIYBFT4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.  
 (2) 5-year Intel warranty and 1.5 million hours MTBF. For high performance, user can preferably use the configuration with 240 GB SSD.  
 (3) EcoStruxure Operator Terminal Expert Run Time demo to be installed and activated by unlimited license HMIRTWCZLSPAZZ (Digital) or HMIRTWCZLSPMZZ (Paper).  
 (4) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (5) Except with HDD + HMIDM Modular Display or with PCI/PCIe up to 45 °C/158 °F.  
 (6) Except with HDD, mini PCIe card or PCI/PCIe card mounted which is up to 40 °C/ 104 °F.

Magelis HMIBMU Universal Modular Box PC



★★★★★ (1)		
Box PC: HMIBM Box wall/book (5)/flat (6) mounting Panel PC: HMIBM Box + associated HMIDM Display		
Intel® Celeron® 2980U dual-core (1.6 GHz, low power) 2x full-size slots with 2x optional interface slots		
HDD ≥ 500 GB, 24/7 Enterprise	None or Configured-To-Order offer	
1x CFAST card slot and 2x HDD/SSD slots (hot-swappable)		
4 GB DDR3 (not user-expandable)/512 KB non-volatile RAM with 300 KB for user	8 GB DDR3 (not user-expandable)/512 KB non-volatile RAM with 300 KB for user	
Optional		
Connector for TPM 1.2 module (9)		
Windows 10 IoT Enterprise (64-bit Multi-language)	None or Configured-To-Order offer	
-		
18...36 V $\overline{\text{---}}$ or 100...240 V $\overline{\text{~}}$ supply with modular power adapter HMIYMMAC1		
17.8 W typical, 33.6 W max.		
2x RJ45 Ethernet 10/100/1,000 Mbps "i210 IEEE1588"		
1x RS-232/422/485 isolated with auto flow control		
2x USB 2.0, 2 USB 3.0		
2x display ports (1 port is disabled when HMIDM Modular Display is mounted on the front)		
Up to 3200 × 2000 at 60 Hz		
2x for WLAN antenna, 1x for GPRS antenna		
Timer with 255 levels/intervals, programmable, 1...255 s		
Yes		
254 × 207 × 65.2 mm/10 × 8.15 × 2.57 in. 254 × 207 × 103.2 mm/10 × 8.15 × 4.06 in.		
Conforming to EN/IEC 60068-2-30 for wall/book mounting: 0...55 °C/32...131 °F (5), for flat mounting: 50 °C/122 °F (6)		
Conforming to IEC 61000-4/ EN 55011: -30...70 °C/-22...158 °F		
Conforming to IEC 60664-1: 1 g from 5...500 Hz		
CE, cULus industrial control (UL 61010-2-201, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), RCM, CCC, CE ATEX and IECEx HazLoc 3GD Zone 2/22, EAC		
EcoStruxure Operator Terminal Expert Run Time Demo (3)		
EcoStruxure Machine SCADA Expert Run Time (4), Node-RED and McAfee whitelisting (7), EcoStruxure Secure Connect Advisor (10)		
HMIBMUHI29D2801	HMIBMU0I29D2001	HMIBMU0I29D200A
HMIBMUHI29D4801	HMIBMU0I29D4001	HMIBMU0I29D400A
-	-	HMIBMU0I29DI00A
-	-	HMIBMU0I29DE00A
4/19		
See configured Magelis Modular Box PC on page 4/32		

(1) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IIoT Box" option to be selected). McAfee whitelisting to be installed and requires licence sticker HMIYYMACWLIOT1 to be applied.  
 (8) Free storage slot requires slide-in HMIYMADSDD1 to mount HDD/SSD 2.5".  
 (9) For Windows 10 operating system. Requires user downgrade to TPM 1.2, with utility tool provided.  
 (10) To be installed and activated with subscription.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

### HMIBMP Performance

Type of Magelis IIoT Box and iPC

Magelis HMIBMP Performance Modular Box PC



<b>Fanless</b>	
<b>Mounting</b>	Box PC Panel PC
<b>CPU</b>	Processor Mini PCIe expansion slots Storage Main drive Slots (8) RAM/MRAM Hot-swap RAID HDD and battery backup
<b>Cybersecurity encryption</b>	
<b>Operating system</b>	
<b>Conformal coating</b>	
<b>Supply voltage</b>	
<b>Power consumption</b>	
<b>Interface</b>	Ethernet Serial ports USB Video Interface Resolution Antenna connectors Watchdog timer
<b>Reset button and buzzer</b>	
<b>Overall dimensions (W x H x D)</b>	With 2 slots (2 mini PCIe) With 4 slots (2 mini PCIe + 2 PCI/PCIe)
<b>Temperature</b>	During operation During storage
<b>Vibration resistance</b> During operation	
<b>Standards and certifications</b>	
<b>Software, IIoT and Cybersecurity</b>	
<b>References</b>	No PCIe/PCI expansion slots 1 PCIe (x4) + 1 PCI 2 PCI 1 PCIe (x1) + 1 PCIe (x4)
<b>Page</b>	
<b>Configured-To-Order</b>	

★★★★★ (1)	
Box PC: HMIBM Box wall/book (5)/flat (6) mounting Panel PC: HMIBM Box + associated HMIDM Display	
Intel Core i7-4650U (1.7 GHz, low power with turbo boost at 3.3GHz)	
2x full-size slots with 2x optional interface slots	
SSD ≥ 128 GB (2)	HDD ≥ 500 GB, 24/7 Enterprise
1x CFAST card slot and 2x HDD/SSD slots (hot-swappable)	
8 GB DDR3 (not user-expandable)/512 KB non-volatile RAM with 300 KB for user	
Optional	
Connector for TPM 1.2 module (9)	
Windows 10 IoT Enterprise (64-bit Multi-language)	
-	
18...36 V $\overline{\text{---}}$ or 100...240 V $\overline{\text{~}}$ supply with modular power adapter HMIYMMAC1	
18.1 W typical, 38.4 W max.	
2x RJ45 Ethernet 10/100/1,000 Mbps "i210 IEEE1588"	
1x RS-232/422/485 isolated with auto flow control	
2x USB 2.0, 2 USB 3.0	
2x display ports (1 port is disabled when HMIDM Modular Display is mounted on the front)	
Up to 3200 x 2000 at 60 Hz	
2x for WLAN antenna, 1 for GPRS antenna	
Timer with 255 levels/intervals, programmable, 1...255 s	
Yes	
254 x 207 x 65.2 mm/10 x 8.15 x 2.57 in.	
254 x 207 x 103.2 mm/10 x 8.15 x 4.06 in.	
Conforming to EN/IEC 60068-2-30: 0...55 °C/32...131 °F (5)	
Conforming to IEC 61000-4/ EN 55011: -30...70 °C/-22...158 °F	
Conforming to IEC 60664-1: 2 g from 5...500 Hz	
CE, cULus industrial control (UL 61010-2-201, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), CE Atex and IECEx HazLoc 3GD Zone 2/22, Marine DNV (without HDD), RCM, CCC, EAC	
EcoStruxure Operator Terminal Expert Run Time Demo (3)	EcoStruxure Operator Terminal Expert Run Time Demo (3), Citect SCADA DVD (4)
EcoStruxure Machine SCADA Expert Run Time (4), Node-RED and McAfee whitelisting (7), EcoStruxure Secure Connect Advisor (10)	
HMIBMP0I74D2801	HMIBMPHI74D2801
HMIBMP0I74D4801	HMIBMPHI74D4801
-	-
-	-
4/20	
See configured Magelis Modular Box PC on page 4/32	

Magelis HMIBMP Performance Modular Box PC



★★★★★ (1)	
Box PC: HMIBM Box wall/book (5)/flat (6) mounting Panel PC: HMIBM Box + associated HMIDM Display	
Intel Core i7-4650U (1.7 GHz, low power with turbo boost at 3.3 GHz)	
2x full-size slots with 2x optional interface slots	
None or Configured-To-Order offer	
1x CFAST card slot and 2x HDD/SSD slots (hot-swappable)	
8 GB DDR3 (not user-expandable)/512 KB non-volatile RAM with 300 KB for user	16 GB DDR3 (not user-expandable)/512 KB non-volatile RAM with 300 KB for user
Optional	
Connector for TPM 1.2 module (9)	
None or Configured-To-Order offer	
-	
18...36 V $\overline{\text{---}}$ or 100...240 V $\overline{\text{~}}$ supply with modular power adapter HMIYMMAC1	
18.1 W typical, 38.4 W max.	
2x RJ45 Ethernet 10/100/1,000 Mbps "i210 IEEE1588"	
1x RS-232/422/485 isolated with auto flow control	
2x USB 2.0, 2 USB 3.0	
2x display ports (1 port is disabled when HMIDM Modular Display is mounted on the front)	
Up to 3200 x 2000 at 60 Hz	
2x for WLAN antenna, 1 for GPRS antenna	
Timer with 255 levels/intervals, programmable, 1...255 s	
Yes	
254 x 207 x 65.2 mm/10 x 8.15 x 2.57 in.	
254 x 207 x 103.2 mm/10 x 8.15 x 4.06 in.	
Conforming to EN/IEC 60068-2-30: 0...55 °C/32...131 °F (5)	
Conforming to IEC 61000-4/ EN 55011: -30...70 °C/-22...158 °F	
Conforming to IEC 60664-1: 1 g from 5...500 Hz	
CE, cULus industrial control (UL 61010-2-201, CSA 22.2 No. 142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), CE Atex and IECEx HazLoc 3GD Zone 2/22, Marine DNV (without HDD), RCM, CCC, EAC	
EcoStruxure Operator Terminal Expert Run Time Demo (3)	
EcoStruxure Machine SCADA Expert Run Time (4), Node-RED and McAfee whitelisting (7), EcoStruxure Secure Connect Advisor (10)	
HMIBMP0I74D2001	HMIBMP0I74D200A
HMIBMP0I74D4001	HMIBMP0I74D400A
-	HMIBMP0I74DI00A
-	HMIBMP0I74DE00A
4/20	
See configured Magelis Modular Box PC on page 4/32	

(1) HMIYBFKT4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.  
 (2) 5-year Intel warranty and 1.5 million hours MTBF.  
 (3) EcoStruxure Operator Terminal Expert Run Time Demo to be installed and activated by unlimited license HMIRTWCZLSPAZZ (Digital) or HMIRTWCZLSPMZZ (Paper).  
 (4) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (5) Except with HDD + HMIDM Modular Display or with PCI/PCIe up to 45 °C/158 °F.  
 (6) Except with HDD, mini PCIe card or PCI/PCIe card mounted which is up to 40 °C/ 104 °F.

(7) Node-RED to be installed or through USB key Windows 10 Recovery process ("Windows 10 with Node-RED for IIoT Box" option to be selected). McAfee whitelisting to be installed and requires licence sticker HMIYYMACWLIOT1 to be applied.  
 (8) Free storage slot requires slide-in HMIYMADSD1 to mount HDD/SSD 2.5".  
 (9) For Windows 10 operating system. Requires user downgrade to TPM 1.2, with utility tool provided.  
 (10) To be installed and activated with subscription.



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Edge Box and Modular Box PC

#### HMIBMI Basic



HMIBMI Basic Box PC

#### Presentation

Magelis HMIBM support advanced automation applications requiring Windows operating systems, with powerful CPUs, expansion capabilities, high-availability options (RAID HDD, UPS), and advanced certifications. Their modularity means that HMIBM Box PCs can be converted to Panel PCs by combining them with HMIDM Displays. They can be used for IIoT at the edge of EcoStruxure for direct connection to Cloud applications (running Node-RED to wire from OT to IT) with enhanced cybersecurity by design.

In addition to the referenced offer, the flexibility offered by the modular design allows Cofigured-To-Order Magelis Box PC versions (see page 4/32).

#### Overview of the offer

##### Magelis HMIBMI Basic

The Magelis HMIBMI Basic offer comprises 5 product references, each equipped with:

- Fanless Intel Atom Apollo Lake E3930 dual-core processor, 1.8 GHz
- 4 GB DDR3 RAM (1)
- Connection ports: 1x USB 3.0, 1x USB 2.0, 1x COM (RS-232/422/485), 2 Gigabit Ethernet, and 1x Display port
- Expansion slots: 1x full-size mini PCIe slot with optional interface
- Power supply: 12-24 V  $\overline{\text{---}}$ , AC with optional external adapter HMIYPSOMAC1

The operating systems, storage devices, and expansion slots are as follows:

- **HMIBMIEA5DD1E01 Edge Box**
  - Operating system: Windows 10 IoT Enterprise LTSB-2016 (64-bit) + TPM 2.0
  - Default storage device: 64 GB eMMC (soldered, not user-expandable)
  - TPM encryption module, default mounted
  - Software: EcoStruxure Operator Terminal Expert + Node-RED (default)
- **HMIBMIEA5DD1101**
  - Operating system: Windows 10 IoT Enterprise LTSB-2016 (64-bit)
  - Default storage device: 64 GB eMMC (soldered, not user-expandable)
  - Software: EcoStruxure Operator Terminal Expert + Node-RED (2)
- **HMIBMIEA5DD110L**
  - Operating system: Windows 10 IoT Enterprise LTSB-2016 (64-bit)
  - Default storage device: 128 GB eMMC (soldered, not user-expandable)
  - Software: EcoStruxure Operator Terminal Expert + Node-RED (2)
- **HMIBMIEA5DD1001**
  - Operating system: None
  - Default storage device: 64 GB eMMC (soldered, not user-expandable)
  - Node-RED (2)
- **HMIBMI0A5DD100A**
  - Operating system: None
  - Default storage device: 64 GB eMMC (soldered, not user-expandable)
  - Node-RED (2)
  - Conformal coating: Yes

(1) Memory is not user-expandable.

(2) Node-RED can be directly installed by user or through USB key Windows 10 Recovery process where "Windows 10 with Node-RED for IIoT Box" option has to be selected.

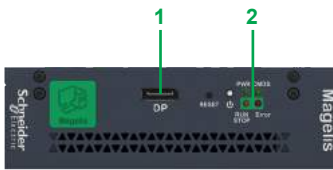
## Description

# Industrial PCs

Magelis iPCs for automation

Magelis HMIBMI Edge Box and Modular Box PC

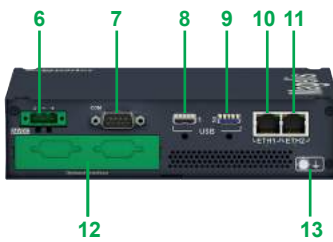
HMIBMI Basic



Front view of Basic Box PC



Top view of Basic Box PC



Underside view of Basic Box PC

### Description

#### Magelis HMIBMI Basic

##### Front view

- 1 Display port
- 2 LEDs and power/reset button

##### Top view

- 3 SMA connector for the WLAN A external antenna
- 4 SMA connector for the cellular 4G external antenna
- 5 SMA connector for the WLAN B external antenna

##### Underside view, 1 expansion slot

- 6 DC power connector
- 7 COM port RS-232 (non-isolated), RS-422/485 (non-isolated)
- 8 USB1 (USB 2.0)
- 9 USB2 (USB 3.0)
- 10 Eth1 (10/100/1000 Mbps) IEEE 1588
- 11 Eth2 (10/100/1000 Mbps) IEEE 1588
- 12 Optional interface
- 13 Ground connection pin

4

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Edge Box and Modular Box PC

#### HMIBMO Optimized



HMIBMO Optimized Box PC, regular version



HMIBMO Optimized Box PC, expandable version

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#### Presentation (continued)

##### Overview of the offer (continued)

##### Magelis HMIBMO Optimized

The Magelis HMIBMO Optimized Box PC offer comprises 6 references, each equipped with:

- Fanless Intel Atom Apollo Lake E3930 dual-core processor, 1.8 GHz
- Connection ports: 2x USB 3.0, 2x USB 2.0, 1x COM (RS-232/422/485), 2 Gigabit i210 Ethernet, and 2x Display port
- Expansion slots: 1x full-size mini PCIe slot
- Power supply: 12-24 V  $\overline{\text{DC}}$ , AC with additional power supply module HMIYPSOMAC1
- Expandable models have 1x optional interface for external connection to mini PCIe cards mounted in the internal slot and 1x HDD/SSD 2.5" slot (3)

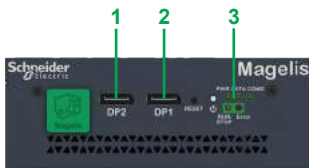
The operating systems, storage devices, and expansion slots are as follows:

- **HMIBMOMA5DD1E01 Edge Box**
  - Operating system: Windows 10 IoT Enterprise LTSB-2016 (64-bit) + TPM 2.0
  - RAM: 4 GB DDR3 (1)
  - Default storage device: 64 GB M.2 SSD
  - TPM encryption module, default mounted
  - Software: EcoStruxure Operator Terminal Expert + Node-RED (default)
  - 1x mini PCIe without optional interface (for wireless cards only)
- **HMIBMOMA5DD1101**
  - Operating system : Windows 10 IoT Enterprise LTSB-2016 (64-bit)
  - RAM: 4 GB DDR3 (1)
  - Default storage device: 64 GB M.2 SSD
  - Software: EcoStruxure Operator Terminal Expert + Node-RED (2)
  - 1x mini PCIe without optional interface (for wireless cards only)
- **HMIBMO0A5DD1001**
  - Operating system: None
  - RAM: 4 GB DDR3 (1)
  - Default storage device: None
  - Software: None
  - 1x mini PCIe without optional interface (for wireless cards only)
- **HMIBMOMA5DDF10L**
  - Operating system: Windows 10 IoT Enterprise LTSB-2016 (64-bit)
  - RAM: 4 GB DDR3 (1)
  - Default storage device: 250 GB M.2 SSD
  - Software: EcoStruxure Operator Terminal Expert + Node-RED (2)
  - Expandable with 1x optional interface for mini PCIe + 1x HDD/SSD 2.5" slot (3)
- **HMIBMO0A5DDF101**
  - Operating system: None
  - RAM: 4 GB DDR3 (1)
  - Default storage device: None
  - Expandable with 1x optional interface for mini PCIe + 1x HDD/SSD 2.5" slot (3)
- **HMIBMO0A5DDF10A**
  - Operating system: None
  - RAM: 8 GB DDR3 (1)
  - Default storage device: None
  - Conformal coating
  - Expandable with 1x optional interface for mini PCIe + 1x HDD/SSD 2.5" slot (3)

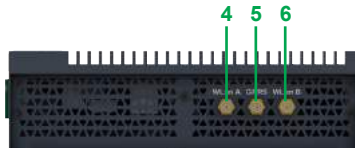
(1) Memory is not user-expandable.

(2) Node-RED can be directly installed by user or through USB key Windows 10 Recovery process where "Windows 10 with Node-RED for IIoT Box" option has to be selected.

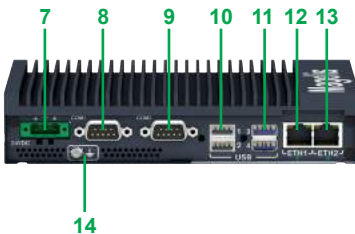
(3) 2.5" HDD/SSD requires HMIYBADHDDBMO1 adapter to be mounted.



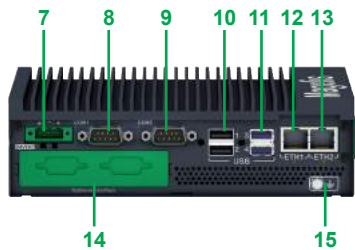
Front view of Optimized Box PC



Top view of Optimized Box PC



Underside view of Optimized Box PC, regular version



Underside view of Optimized Box PC, expandable version

### Description

#### Magelis HMIBMO Optimized

##### Front view

- 1 Display Port 2
- 2 Display Port 1
- 3 LEDs and power/reset button

##### Top view

- 4 SMA connector for the WLAN A external antenna
- 5 SMA connector for the cellular 4G external antenna
- 6 SMA connector for the WLAN B external antenna

##### Underside view "regular version" (1)

- 7 DC power connector
- 8 COM1 port RS-232 (non-isolated)
- 9 COM2 port RS-232 (non-isolated), RS-422/485 (non-isolated)
- 10 USB1 and USB2 (USB 2.0)
- 11 USB3 and USB4 (USB 3.0)
- 12 Eth1 (10/100/1000 Mbps) IEEE1588
- 13 Eth2 (10/100/1000 Mbps) IEEE1588
- 14 Ground connection pin

##### Underside view "expandable version" (2)

- 7 DC power connector
- 8 COM1 port RS-232 (non-isolated)
- 9 COM2 port RS-232 (non-isolated), RS-422/485 (non-isolated)
- 10 USB1 and USB2 (USB 2.0)
- 11 USB3 and USB4 (USB 3.0)
- 12 Eth1 (10/100/1000 Mbps) IEEE1588
- 13 Eth2 (10/100/1000 Mbps) IEEE1588
- 14 Optional interface
- 15 Ground connection pin

(1) Regular version: HMIBMOMA5DD1101, HMIBMOMA5DD1E01, HMIBMO0ADD1001

(2) Expandable version: HMIBMOMA5DDF10L, HMIBMO0A5DDF101, HMIBMO0A5DDF10A

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

#### HMIBMU Universal and HMIBMP Performance



HMIBMU Universal Box PC  
2 mini PCIe slots



HMIBMU Universal Box PC  
2 mini PCIe + 2 PCI/PCIe slots

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### Presentation (continued)

#### Overview of the offer (continued)

#### Magelis HMIBMU Universal

The Magelis HMIBMU Universal Box PC offer comprises 12 references, each equipped with:

- Fanless Intel® Celeron 2980U processor (1.6 GHz) (2)
- 4 GB or 8 GB DDR3 RAM (3)
- 512 KB non-volatile MRAM with 300 KB for user
- Connection ports: 2 USB 3.0, 2 USB 2.0, 1 COM (RS-232, RS-232/422/485), 2 Gigabit Ethernet, and 2 Display ports (1)
- Expansion slots: 2 full-size mini PCIe slots, 0 or 2 full-size PCI/PCIe slots (2)
- Power supply: 24 V  $\overline{DC}$ , AC with additional power supply module HMIYMMAC1

The operating systems, storage devices, and expansion slots are as follows:

- With 4 GB DDR3 RAM (3), and 2 full-size mini PCIe slots:
  - **HMIBMU0129D2W01**
    - Operating system: WES 7 Premium SP1 (64-bit Multi-language)
    - Default storage device: 32 GB CFAST card
  - **HMIBMUSI29D2801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
  - **HMIBMUHI29D2801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 500 GB HDD (Enterprise 24/7)
  - **HMIBMU0129D2001**
    - Operating system: None
    - Default storage device: None
- With 4 GB DDR3 RAM (3), 2 full-size mini PCIe slots and 1 PCI + 1 PCIe (x4) (2):
  - **HMIBMU0129D4W01**
    - Operating system: WES 7 Premium SP1 (64-bit Multi-language)
    - Default storage device: 32 GB CFAST card
  - **HMIBMUSI29D4801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
  - **HMIBMUHI29D4801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 500 GB HDD (Enterprise 24/7)
  - **HMIBMU0129D4001:**
    - Operating system: None
    - Default storage device: None
- With 8 GB DDR3 RAM (3), conformal coating, and without operating system/ default storage device:
  - **HMIBMU0129D200A**
    - 2 full-size mini PCIe slots
  - **HMIBMU0129D400A**
    - 2 full-size mini PCIe slots, 1 PCI + 1 PCIe (x4) (2)
  - **HMIBMU0129DI00A**
    - 2 full-size mini PCIe slots, 2 PCI (2)
  - **HMIBMU0129DE00A**
    - 2 full-size mini PCIe slots, 1 PCIe (x1) + 1 PCIe (x4) (2)

(1) When Modular Box PC is mounted on Display, Display port 2 has no function.  
 (2) HMIYBFKT4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.  
 (3) Memory is not user-expandable.



HMIBMP Performance Box PC  
2 mini PCIe slots



HMIBMP Performance Box PC  
2 mini PCIe + 2 PCI/PCIe slots

#### Presentation (continued)

##### Overview of the offer (continued)

##### Magelis HMIBMP Performance

The Magelis HMIBMP Performance Box PC offer comprises 10 references, each equipped with:

- Fanless Intel® Core i7-4650U processor (1.7 GHz) (2)
- 8 GB or 16 GB DDR3 RAM (3)
- 512 KB non-volatile MRAM with 300 KB for user
- Connection ports: 2 USB 3.0, 2 USB 2.0, 1 COM (RS-232/422/485), 2 Gigabit Ethernet, and 2 Display ports (1)
- Expansion slots: 2 full-size mini PCIe slots, 0 or 2 full-size PCI/PCIe slots
- Power supply: 24 V  $\overline{\text{DC}}$ , AC with additional power supply module HMIYMMAC1

The operating systems, storage devices, and expansion slots are as follows:

- With 8 GB DDR3 RAM (3), and 2 full-size mini PCIe slots (2):
  - **HMIBMP0174D2801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
  - **HMIBMPHI74D2801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 500 GB HDD (Enterprise 24/7)
  - **HMIBMP0174D2001**
    - Operating system: None
    - Default storage device: None
- With 8 GB DDR3 RAM (3), 2 full-size mini PCIe slots and 1 PCI + 1 PCIe (x4) (2):
  - **HMIBMP0174D4801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 128 GB SSD (5-year manufacturer warranty and 1.5 million hours MTBF)
  - **HMIBMPHI74D4801**
    - Operating system: Windows 10 IoT Enterprise (64-bit Multi-language)
    - Default storage device: 500 GB HDD (Enterprise 24/7)
  - **HMIBMP0174D4001:**
    - Operating system: None
    - Default storage device: None
- With 16 GB DDR3 RAM (3), conformal coating, and without operating system and default storage device:
  - **HMIBMP0174D200A**
    - 2 full-size mini PCIe slots
  - **HMIBMP0174D400A**
    - 2 full-size mini PCIe slots, 1 PCI + 1 PCIe (x4) (2)
  - **HMIBMP0174DI00A**
    - 2 full-size mini PCIe slots, 2 PCI (2)
  - **HMIBMP0174DE00A**
    - 2 full-size mini PCIe slots, 1 PCIe (x1) + 1 PCIe (x4) (2)

(1) When Modular Box PC is mounted on Display, Display Port 2 has no function.

(2) HMIYBFKT4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.

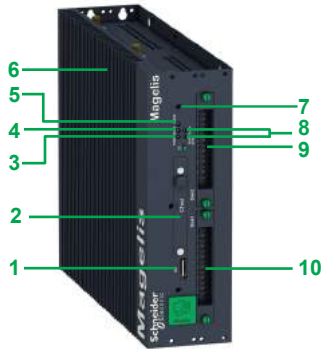
(3) Memory is not user-expandable.

# Industrial PCs

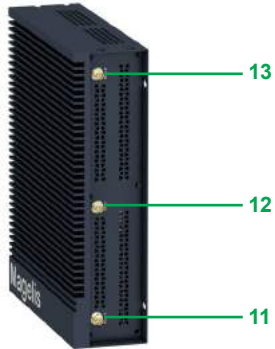
Magelis iPCs for automation

Magelis HMIBM Modular Box PC

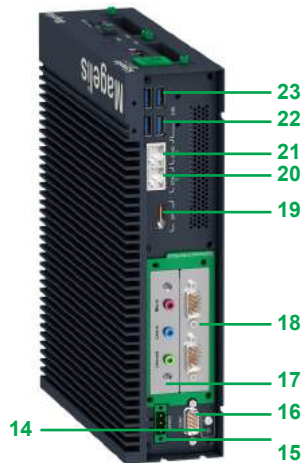
HMIBMU Universal and HMIBMP Performance



Front view of Magelis Modular Box PC, 2 expansion slots



Top view of Magelis Modular Box PC, 2 expansion slots



Underside view of Magelis Modular Box PC, 2 expansion slots

## Description

Magelis HMIBMU Universal and HMIBMP Performance, 2 expansion slots

### Front view

- 1 Display port 2 (1)
- 2 Slide-in CFast card slot
- 3 Power status indicator (Green: On, Orange: Stand-by, No light: Off)
- 4 SATA status indicator (Green: On (Storage data transmit), Off (No storage data transmit))
- 5 CMOS status indicator (Orange: On (RTC voltage < 3 V ---), Off (RTC voltage > 3 V ---))
- 6 Fanless heat sink
- 7 Power supply/Reset button
- 8 Programmable status indicators (RUN/STOP and ERR LEDs)
- 9 HDD/SSD 2 (hot-swap and can be redundant RAID configuration) (2)
- 10 HDD/SSD 1 (hot-swap and can be redundant RAID configuration) (2)

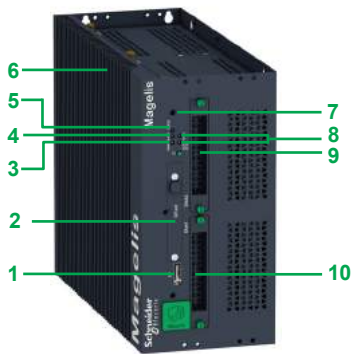
### Top view

- 11 SMA connector for wireless LAN external antenna
- 12 SMA connector for Cellular 4G external antenna
- 13 SMA connector for wireless LAN external antenna

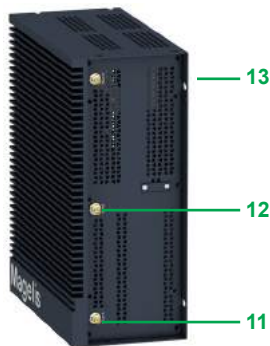
### Underside view

- 14 DC power connector
- 15 Ground connection pin
- 16 COM1 port RS-232/422/485 (isolated), can be used for communication with HMIYMUPSKT1 UPS battery
- 17 Optional interface 2 with full-size mini PCIe slot
- 18 Optional interface 1 with full-size mini PCIe slot
- 19 Display port 1
- 20 Eth1 (10/100/1,000 Mbps) IEEE 1588
- 21 Eth2 (10/100/1,000 Mbps) IEEE 1588
- 22 USB1 and USB2 (USB 3.0)
- 23 USB3 and USB4 (USB 2.0)

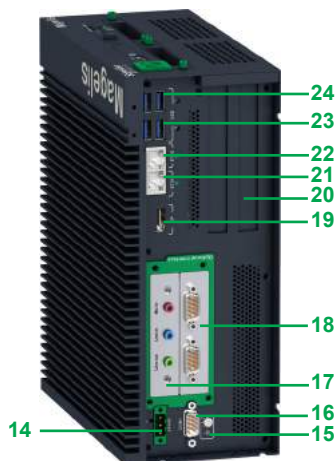
(1) When Modular Box PC is mounted on Display, Display port 2 has no function.  
 (2) Free storage slot requires slide-in HMIYMADSD1 to mount HDD/SSD 2.5".



Front view of Magelis Modular Box PC, 4 expansion slots



Top view of Magelis Modular Box PC, 4 expansion slots



Underside view of Magelis Modular Box PC, 4 expansion slots

### Description

#### Magelis HMIBMU Universal and HMIBMP Performance, 4 expansion slots

##### Front view

- 1 Display port 2 (1)
- 2 Slide-in CFast card slot
- 3 Power status indicator (Green: On, Orange: Stand-by, No light: Off)
- 4 SATA status indicator (Green: On (Storage data transmit), Off (No storage data transmit))
- 5 CMOS status indicator (Orange: On (RTC voltage < 3 V ---), Off (RTC voltage > 3 V ---))
- 6 Fanless heat sink
- 7 Power supply/Reset button
- 8 Programmable status indicators (RUN/STOP and ERR LEDs)
- 9 HDD/SSD 2 (hot-swap and can be redundant RAID configuration) (2)
- 10 HDD/SSD 1 (hot-swap and can be redundant RAID configuration) (2)

##### Top view

- 11 SMA connector for wireless LAN external antenna
- 12 SMA connector for Cellular 4G external antenna
- 13 SMA connector for wireless LAN external antenna

##### Underside view

- 14 DC power connector
- 15 Ground connection pin
- 16 COM1 port RS-232/422/485 (isolated), can be used for communication with HMIYMUPSKT1 UPS battery
- 17 Optional interface 1 with full-size mini PCIe slot
- 18 Optional interface 2 with full-size mini PCIe slot
- 19 Display port 1
- 20 2x PCI/PCIe slots (3)
- 21 Eth1 (10/100/1,000 Mbps) IEEE1588 (3)
- 22 Eth2 (10/100/1,000 Mbps) IEEE1588 (3)
- 23 USB1 and USB2 (USB 3.0)
- 24 USB3 and USB4 (USB 2.0)

(1) When Modular Box iPC is mounted on Display, Display port 2 has no function.

(2) Free storage slot requires slide-in HMIYMADSDD1 to mount HDD/SSD 2.5".

(3) HMIYBFKT4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Edge Box and Modular Box PC

#### HMIBMI Basic and HMIBMO Optimized

### Ready-to-run Software, IIoT and Cybersecurity

Magelis HMIBM are supported by Schneider Electric HMI software. For HMI applications, EcoStruxure Operator Terminal Expert Run Time demo version can be downloaded and activated to unlimited version with **HMIRTWCZLSPAZZ** (Digital) or **HMIRTWCZLSPMZZ** (Paper) license. For line management and lite supervision, EcoStruxure Machine SCADA Expert Run Time is available via Configured-To-Order process.

Citect SCADA software can run on Magelis HMIBM with an SSD disk drive. This software can be installed from the Citect SCADA DVD (6) supplied with Magelis HMIBM (5).

For secure remote access, Magelis HMIBM are supported with EcoStruxure Secure Connect Advisor that will have to be installed and activated with subscription.

For more information on EcoStruxure Operator Terminal Expert, EcoStruxure Secure Connect Advisor and EcoStruxure Machine SCADA Expert, please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).

The mother board of latest Magelis Modular Box PC are equipped with a pin header to install Cybersecurity TPM optional module **HMIYMINATPM201** for hardware encryption with Windows bit-locker.

For IIoT connections to Cloud applications, Magelis HMIBM can run Node-RED. To activate McAfee whitelisting, the license sticker **HMIYMACWLIOT1** is required to be applied.

### Magelis HMIBMI Basic

Intel Atom Apollo Lake E3930 dual-core 1.8 GHz processor/24 V  $\overline{\text{DC}}$  supply voltage (1)

Expansion slot	Operating system	Software	Storage disk	DDR3 RAM (2)	Reference	Weight kg/lb
1x mini PCIe, full-size with optional interface	Windows 10 IoT Enterprise LTSB-2016 (64-bit)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (5)	64 GB eMMC (soldered)	4 GB	<b>HMIBMIEA5DD1101</b>	1.20/2.64
		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect + TPM 2.0	64 GB eMMC (soldered)	4 GB	<b>HMIBMIEA5DD1E01</b> (8)	1.20/2.64
	Windows 10 IoT Enterprise LTSB-2016 (64-bit)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (5)	128 GB eMMC (soldered)	4 GB	<b>HMIBMIEA5DD110L</b>	1.20/2.64
		No	64 GB eMMC (soldered)	4 GB	<b>HMIBMIEA5DD1001</b>	1.20/2.64
No	No	128 GB eMMC (soldered)	4 GB	<b>HMIBMI0A5DD100A</b> (7)	1.20/2.64	



HMIBMIEA5DD110L



HMIBMOMA5DD1E01



HMIBMO0A5DDF101

### Magelis HMIBMO Optimized

Intel Atom Apollo Lake E3930 dual-core 1.8 GHz processor/24 V  $\overline{\text{DC}}$  supply voltage (1)

Regular version (without optional interface)

1x mini PCIe, full-size without optional interface	Windows 10 IoT Enterprise LTSB-2016 (64-bit)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (5)	M.2 SSD 64 GB	4 GB	<b>HMIBMOMA5DD1101</b>	1.25/2.75
		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (default)	M.2 SSD 64 GB	4 GB	<b>HMIBMOMA5DD1E01</b> (8)	1.25/2.75
	No	No	No	4 GB	<b>HMIBMO0A5DD1001</b>	1.25/2.75

Expandable version (with Optional interface and HDD/SSD 2.5" slot (6))

1x mini PCIe, full-size with optional interface	Windows 10 IoT Enterprise LTSB-2016 (64-bit)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (5)	M.2 SSD 250 GB	4 GB	<b>HMIBMOMA5DDF10L</b>	1.30/2.86
		No	No	4 GB	<b>HMIBMO0A5DDF101</b>	1.30/2.86
	No	No	No	8 GB	<b>HMIBMO0A5DDF10A</b> (7)	1.30/2.86

(1) AC with additional power supply module HMIYPSOMAC1 (or HMIYMMAC1 for HMIBMO in hazardous locations).

(2) Memory is not user-expandable.

(3) EcoStruxure Operator Terminal Expert Run Time Demo to be installed and activated by unlimited license HMIRTWCZLSPAZZ (Digital) or HMIRTWCZLSPMZZ (Paper).

(4) EcoStruxure Secure Connect Advisor license has to be purchased. For more information please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).

(5) Node-RED can be directly installed by user or through USB key Windows 10 Recovery process where "Windows 10 with Node-RED for IIoT Box" option has to be selected.

(6) 2.5" HDD/SSD requires HMIYBADHDDBMO1 adapter to be mounted.

(7) With conformal coating.

(8) Edge Box with TPM 2.0 default module.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

### HMIBMU Universal



HMIBMUSI29D2801



HMIBMUCI29D4W01

Magelis HMIBMU Universal							
Intel Celeron 2980U 1.6 GHz processor/24 V $\overline{\text{DC}}$ supply voltage (1)							
Expansion slot	Operating system	Software	Storage disk	DDR3 RAM (2)	Reference	Weight kg/lb	
<b>With 2 expansion slots</b>							
2x mini PCIe, full-size with optional interface	WES 7 Premium SP1 (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8)	CFast card $\geq$ 32 GB	4 GB	<b>HMIBMUCI29D2W01</b>	3.100/6.800	
		Windows 10 IoT Enterprise (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8), Citect SCADA DVD (5)	SSD flash disk $\geq$ 128 GB with 1.5 million hours MTBF	4 GB	<b>HMIBMUSI29D2801</b>	3.100/6.800
		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8)	HDD Enterprise 24/7 $\geq$ 500 GB	4 GB	<b>HMIBMUHI29D2801</b>	3.100/6.800	
No	No	EcoStruxure Secure Connect Advisor (4), Node-RED (8)	No	4 GB	<b>HMIBMU0I29D2001</b>	3.100/6.800	
No	No	No	No	8 GB	<b>HMIBMU0I29D200A (7)</b>	3.100/6.800	
<b>With 4 expansion slots (6)</b>							
2x mini PCIe, full-size with optional interface + 1x PCI + 1x PCIe (x4), full-size	WES 7 Premium SP1 (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8)	CFast card $\geq$ 32 GB	4 GB	<b>HMIBMUCI29D4W01</b>	3.900/8.600	
		Windows 10 IoT Enterprise (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8), Citect SCADA DVD (5)	SSD flash disk $\geq$ 128 GB with 1.5 million hours MTBF	4 GB	<b>HMIBMUSI29D4801</b>	3.900/8.600
		EcoStruxure Secure Connect Advisor (4), Node-RED (8), Citect SCADA DVD (5)	HDD Enterprise 24/7 $\geq$ 500 GB	4 GB	<b>HMIBMUHI29D4801</b>	3.900/8.600	
No	No	EcoStruxure Secure Connect Advisor (4), Node-RED (8)	No	4 GB	<b>HMIBMU0I29D4001</b>	3.900/8.600	
No	No	No	No	8 GB	<b>HMIBMU0I29D400A</b>	3.900/8.600	
2x mini PCIe, full-size with optional interface + 2x PCI, full-size	No	No	No	8 GB	<b>HMIBMU0I29DI00A (7)</b>	3.900/8.600	
2x mini PCIe, full-size with optional interface + 1x PCIe (x1) + 1x PCIe (x4), full-size	No	No	No	8 GB	<b>HMIBMU0I29DE00A (7)</b>	3.900/8.600	

(1) AC with additional power supply module HMIYMMAC1.  
 (2) Memory is not user-expandable.  
 (3) EcoStruxure Operator Terminal Expert Run Time Demo to be installed and activated by unlimited license HMIRTWCZLSPAZZ (Digital) or HMIRTWCZLSPMZZ (Paper).  
 (4) EcoStruxure Secure Connect Advisor license has to be purchased. For more information please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).  
 (5) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (6) HMIYBFKT4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.  
 (7) With conformal coating.  
 (8) Node-RED can be directly installed by user or through USB key Windows 10 Recovery process where "Windows 10 with Node-RED for IIoT Box" option has to be selected.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

### HMIBMP Performance



HMIBMPSI74D2801



HMIBMPSI74D4801

#### Magelis HMIBMP Performance

Intel Core i7-4650U 1.7 GHz processor/24 V --- supply voltage (1)

PCI slot	Operating system	Software	Storage disk	DDR3 RAM (2)	Reference	Weight kg/lb
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#### With 2 expansion slots

2x mini PCIe, full-size with optional interface	Windows 10 IoT Enterprise (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8), Citect SCADA DVD (5)	SSD flash disk ≥ 128 GB with 1.5 million hours MTBF	8 GB	<b>HMIBMPSI74D2801</b>	3.100/ 6.800
		EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8)	HDD Enterprise 24/7 ≥ 500 GB	8 GB	<b>HMIBMPHI74D2801</b>	3.100/ 6.800
No	No	EcoStruxure Secure Connect Advisor (4), Node-RED (8)	No	8 GB	<b>HMIBMP0I74D2001</b>	3.100/ 6.800
No	No	No	No	16 GB	<b>HMIBMP0I74D200A</b> (7)	3.100/ 6.800

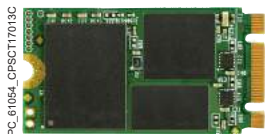
#### With 4 expansion slots (6)

2x mini PCIe, full-size with optional interface + 1x PCI + 1x PCIe (x4), full-size	Windows 10 IoT Enterprise (64-bit Multi-language)	EcoStruxure Operator Terminal Expert Run Time Demo (3), EcoStruxure Secure Connect Advisor (4), Node-RED (8), Citect SCADA DVD (5)	SSD flash disk ≥ 128 GB with 1.5 million hours MTBF	8 GB	<b>HMIBMPSI74D4801</b>	3.900/ 8.600
		EcoStruxure Secure Connect Advisor (4), Node-RED (8), Citect SCADA DVD (5)	HDD Enterprise 24/7 ≥ 500 GB	8 GB	<b>HMIBMPHI74D4801</b>	3.900/ 8.600
No	No	EcoStruxure Secure Connect Advisor (4), Node-RED (8)	No	8 GB	<b>HMIBMP0I74D4001</b>	3.900/ 8.600
No	No	No	No	16 GB	<b>HMIBMP0I74D400A</b> (7)	3.900/ 8.600
2x mini PCIe, full-size with optional interface + 2x PCI, full-size	No	No	No	16 GB	<b>HMIBMP0I74DI00A</b> (7)	3.900/ 8.600
2x mini PCIe, full-size with optional interface + 1x PCIe (x1) + 1x PCIe (x4), full-size	No	No	No	16 GB	<b>HMIBMP0I74DE00A</b> (7)	3.900/ 8.600

(1) AC with additional power supply module HMIYMMAC1.  
 (2) Memory is not user-expandable.  
 (3) EcoStruxure Operator Terminal Expert Run Time Demo to be installed and activated by unlimited license HMIRTCZLSPAZZ (Digital) or HMIRTCZLSPMZZ (Paper).  
 (4) EcoStruxure Secure Connect Advisor license has to be purchased. For more information please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).  
 (5) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.  
 (6) HMIYBFK4BM11 fan kit is required only when PCI/PCIe expansion cards above 3 W are installed.  
 (7) With conformal coating.  
 (8) Node-RED can be directly installed by user or through USB key Windows 10 Recovery process where "Windows 10 with Node-RED for IIoT Box" option has to be selected.



HMIYSSDS240S1



HMIYM2256M1



HMIYMADSDD1



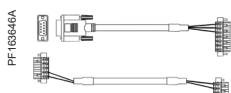
HMIYM2256M1



HMIYMMAC1



HMIYMUPSKT1



HMIYCABUPS31

Separate components				
Description	Details	Compatible with Magelis HMIBM	Reference	Weight kg/lb
<b>Drives</b>				
<b>CFast card</b>	32 GB MLC, blank	HMIBMU, HMIBMP	HMIYCF32S	–
<b>Blank SSD with mounting screws</b>	128 GB MLC (5-year warranty and 1.5 million hours MTBF)	HMIBMO (expandable), HMIBMU, HMIBMP	HMIYSSDS080S1	–
	256 GB MLC (5-year warranty and 2 million hours MTBF)		HMIYSSDS240S1	–
<b>M.2 SSD</b>	64 GB MLC (3-years warranty and 1.5 million hours MTBF)	HMIBMO	HMIYM2064M1	–
	128 GB MLC (3-years warranty and 1.5 million hours MTBF)	HMIBMO	HMIYM2128M1	–
	250 GB MLC (3-years warranty and 1.5 million hours MTBF)	HMIBMO	HMIYM2256M1	–
<b>Blank HDD</b>	Spare 1 TB HDD, blank	HMIBMO (expandable), HMIBMU, HMIBMP	HMIYHDD01T21	–
	Spare 500 GB HDD, blank	HMIBMO (expandable), HMIBMU, HMIBMP	HMIYHDD50021	–
<b>Slide-in for HDD/SSD</b>	Slide-in to mount HDD/SSD 2.5" in a storage slot of modular Box PC	HMIBMU, HMIBMP	HMIYMADSDD1	–
<b>Carrier for HDD/SSD</b>	Carrier to mount an HDD/SSD 2.5" in a storage slot of Magelis HMIBMO expandable model	HMIBMO (expandable)	HMIYBADHDDBMO1	–
<b>Accessories</b>				
<b>Maintenance kit for HMIBM Box PCs + HMIDM Modular Displays</b>	Includes: <ul style="list-style-type: none"> <li>■ Screws and dampers for HDD/SSD</li> <li>■ Screws and clamps for panel mounting</li> <li>■ Modular Box cover screws</li> <li>■ Screws for mounting Box to Display</li> <li>■ Power connector and sticker</li> <li>■ CFast card pull-out</li> <li>■ Rubbers for display mounting</li> <li>■ Filter for fan kit</li> <li>■ Bracket, screws, and dampers for mini PCIe</li> </ul>	All models	HMIYBMKTBM1	–
<b>Fan kit for HMIBM Box PC</b>	Fan kit to mount PCI/PCIe cards with a power consumption between 3 W to 10 W on a HMIBM Modular Box PC	HMIBMU and HMIBMP (2 slot models)	HMIYBFKT4BM11	–
<b>USB key blank for iPC recovery</b>	Spare USB memory key blank (1)	All models	HMIYUSBBK111	–
<b>AC power supply (60 W)</b>	AC power adapter (60 W)	HMIBMI, HMIBMO	HMIYPSOMAC1	–
<b>AC power supply for HMIBM</b>	Modular AC power adapter (100 W) (2)	All models	HMIYMMAC1	–
<b>UPS battery</b>	UPS battery for HMIBM (no cables)	All models	HMIYMUPSKT1	–
<b>UPS cable</b>	UPS cables for HMIBM (3 m/9.84 ft)	All models	HMIYCABUPS31	–
<b>VESA mounting kit</b>	VESA mounting kit for HMIBM Box PC + HMIDM6 4:3 12" and W12" Display	HMIBMI, HMIBMO HMIBMU and HMIBMP (2 slot models)	HMIYPVESA21	–
	VESA mounting kit for HMIBM Box PC + HMIDM7/9/A 4:3 15", W15", W19" and W22" Display	HMIBMI, HMIBMO HMIBMU and HMIBMP (2 slot models)	HMIYPVESA21	–
	VESA mounting kit for HMIBM Box PC + HMIDM7/9/A 4:3 15", W15", W19" and W22" Display	HMIBMU and HMIBMP (4 slot models)	HMIYPVESA41	–
<b>DP to DVI adapter</b>	DP to DVI-D adapter	All models	HMIYADDPDVI11	–
<b>DP to DVI cable</b>	DP to DVI-D cable 3 m/9.84 ft	All models	HMIYCABDPDVI31	–
<b>Display adaptation plate</b>	Display adaptation plate from legacy Panel PC 19" display HMIPU●●●●● to Modular Display 15" HMIDM7421	All models with HMIDM7421	HMIYAD1915D1	–
<b>DIN rail adapter</b>		HMIBMI, HMIBMO	HMIYADBMODIN11	–

(1) USB key including restore image for recovery is supplied with each unit. The spare blank key is only necessary if the default key supplied with the unit is lost.  
 (2) Certified for IECEx Zone 22 (Dust) only. HMIYPSPMAC1 is not certified for IECEx Zone 2 (Gas).  
 (3) EcoStruxure Machine SCADA Expert available in Configured-To-Order (see page 4/32).  
 (4) For more information, please refer to "EcoStruxure Secure Connect Advisor catalog" available in SE.com.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC

#### Separate components

Separate components (continued)				
Description	Details	Compatible with Magelis HMIBM	Reference	Weight kg/lb
<b>Software and Secure remote access (1)</b>				
<b>EcoStruxure Operator Terminal Expert Run Time license</b>	Converts the 21-day trial version of EcoStruxure Operator Terminal Expert Run Time Demo to an unlimited license.	All models with EcoStruxure Operator Terminal Expert	<b>HMIRTCZLSPAZZ</b> (Digital)	–
			<b>HMIRTCZLSPMZZ</b> (Paper)	–
<b>EcoStruxure Secure Connect Advisor</b>	For HMI secure remote access	All models that support EcoStruxure Secure Connect Advisor	<b>VJOCNT(2)</b>	–
<b>Interfaces</b>				
<b>NVRAM interface</b>	Mini PCIe with non-volatile RAM, without external connectors	HMIBMU, HMIBMP	<b>HMIYMINNVRAM1</b>	–
<b>2x RS-422/485 isolated interface</b>	Mini PCIe with 2x RS-422/485, isolated external interface with connectors	All models with optional interfaces	<b>HMIYMINSL24851</b>	–
<b>4x RS-422/485 interface</b>	Mini PCIe with 4x RS-422/485, external interface with connectors	All models with optional interfaces	<b>HMIYMINSL44851</b>	–
<b>2x RS-232 isolated interface</b>	Mini PCIe with 2x RS-232, isolated external interface with connectors	All models with optional interfaces	<b>HMIYMINSL22321</b>	–
<b>4x RS-232 interface</b>	Mini PCIe with 4x RS-232, external interface with connectors	All models with optional interfaces	<b>HMIYMINSL42321</b>	–
<b>1x Profibus DP Master NVRAM interface</b>	Mini PCIe with 1x Profibus DP Master, non-volatile RAM, external interface with connectors	All models with optional interfaces	<b>HMIYMINPRO1</b>	–
<b>2x CANopen/CAN bus interface</b>	Mini PCIe with 2x CAN fieldbus, external interface with connectors, drivers for CANopen and CAN bus	All models with optional interfaces	<b>HMIYMINCAN1</b>	–
<b>16x DI/8 DO interface</b>	Mini PCIe with 16x DI/8 DO, external interface with connectors, 2 m/6.56 ft cable and DIN rail wiring terminal	All models with optional interfaces	<b>HMIYMINIO1</b>	–
<b>2x USB 3.0 interface</b>	Mini PCIe with USB 3.0, external interface with connectors	All models with optional interfaces	<b>HMIYMINUSB1</b>	–
<b>Audio interface</b>	Module with Audio (line in, line out and mic), external interface with connectors	All models with optional interfaces	<b>HMIYMINAUD1</b>	–

(1) EcoStruxure Machine SCADA Expert available in Configured-To-Order (see page 4/32).

(2) For more information, please refer to "EcoStruxure Secure Connect Advisor catalog" available in SE.com.



HMIYMINNVRAM1



HMIYMINSL24851



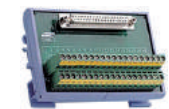
HMIYMINCAN1



HMIYMINIO1



HMIYMINUSB1



HMIYMINAUD1

Separate components (continued)				
Description	Details	Compatible with Magelis HMIBM	Reference	Weight kg/lb
<b>Interfaces (continued)</b>				
<b>Wireless LAN interface + 2x antennas kit</b>	Kit with mini PCIe (half-size) WiFi access point + bluetooth, adapter to mini PCIe (full-size) slot and 2x antennas	All models	HMIYMINWIFI1	–
<b>Wireless LAN interface + 2x antennas kit</b>	Kit with mini PCIe WiFi (access point with Windows 10) + Bluetooth and 2x antennas	All models	HMIYMINWIFI2	–
<b>Remote wireless LAN antenna cable</b>	5 m/16.4 ft cable to mount a WiFi antenna remotely from Magelis iPC	All models	HMIYCABWIFIAN51	–
<b>Cybersecurity TPM for iPC</b>	Trusted Platform Module (1) for cyber secured hardware encryption on HMIBM with related connector on mother board, to be activated with Windows bit-locker	All models	HMIYMINATPM201	–
<b>McAfee whitelisting</b>	License sticker and a USB stick with software application for Cybersecurity whitelisting on Windows 10	All models	HMIYMACWLIOT1 (6)	–
<b>Cellular 3G interface</b>	Mini PCIe with GPRS, SIM card holder, and external antenna	All models	HMIYMINGPRS1	–
<b>Cellular 4G interface for North America</b>	Mini PCIe GPRS 4G for North America frequencies. Kit including SIM card holder and external antenna	All models	HMIYMIN4GUS1	–
<b>Cellular 4G interface for Europe and Asia</b>	Mini PCIe GPRS 4G for Europe and Asia frequencies. Kit including SIM card holder and external antenna	All models	HMIYMIN4GEU1	–
<b>Mini PCIe interface to Display Adapter</b>	Mini PCIe Interface transmitter with RJ45 port, graphic video card	All models with optional interfaces (5)	HMIYMINDP1	–
<b>Mini PCIe interface DVI-I for iPC</b>	Mini PCIe Graphic video card Full HD 1920 x 1080, with DVI-I connector on an external interface (providing both dual digital and analog signals)	All models with optional interfaces (5)	HMIYMINDVII1	–
<b>Mini PCIe interface 2VGA + DVI-D</b>	Mini PCIe Graphic video card Full HD 1920 x 1080, with 2xVGA connectors on a single external interface and 1x DVI-D connector in a second external interface	All models with optional interfaces (5)	HMIYMINVGADVID1	–
<b>Mini PCIe interface Audio for iPC</b>	Mini PCIe audio card and one external interface with speaker OUT, Line IN and Mic IN connectors	All models with optional interfaces	HMIYMINAUD21	–

(1) TPM delivered at 2.0 version, requiring user downgrade to 1.2 with the provided tool to run on HMIBMU/HMIBMP with BIOS and Windows 10.

(2) HMIYMINDP1 cannot be used with HMIYMINDVII1 or HMIYMINVGADVID1.

(3) HMIYMINDP1 and HMIYMINUSB1 cannot be used together.

(4) Remove the existing driver when user want to install HMIYMINDP1 or HMIYMINDVII1 or HMIYMINVGADVID1.

(5) Limited to a single Mini PCIe graphic video card per unit.

(6) Available in Q1 2019.

IPC\_61054\_CPSC17017



HMIYMIN4GUS1

IPC\_61054\_CPSC17011



HMIYMINATPM201

IPC\_61054\_CPSC17020



HMIYMACWLIOT1

# Industrial PCs

## Magelis HMIDM Modular Display

Type of Display	Magelis HMIDM Modular Display			
Model	4:3 12" touch screen	4:3 15" touch screen	W12" touch screen	W15" touch screen



<b>Screen</b>	Type	LED LCD single-touch resistive screen		LED LCD 5-point multi-touch projected capacitive technology screen	
	Size	4:3 12.1"	4:3 15"	W12.1"	W15.6"
	Resolution	XGA, 1024 × 768 pixels, 16.7 million colors		WHD WXGA, 1280 × 800, 16.7 million colors	WHD FWXGA, 1366 × 768 pixels, 16.7 million colors
	Degree of protection	IP66, Nema 4x indoor front panel, and 7H hardness anti-scratch			
	Brightness	≥ 300 cd/m <sup>2</sup> , step less adjustment			
	View angle	Vertical 115°, horizontal 140°		Vertical 140°, horizontal 150°	
	Backlight service life	50,000 hours			
	Operate with water on screen	Yes for all models			
<b>Interface</b>	On the front panel	1x USB 2.0 (Type A) and Reset button		–	
	On the back panel	–		–	
<b>Supply voltage</b>	From Box PC or mounted Display Adapter				
<b>Standards and certifications</b> (mounted on front Panel of Box PC HMIBM or Display Adapter HMIIDID)	Marine	No	Yes	No	Yes
	IECEX ATEX (2)	No	Yes	No	Yes
Others	CE, RCM, EAC, cULus Industrial Control (UL 61010, CSA 22.2 No.142), cULus HazLoc (ANSI/ISA 12.12.01 and CSA C22.2 No. 213, Class I, Division 2), FCC (part 15 EMC Class A)				
<b>Power consumption</b>	With Universal Modular Box PC	38.6 W typical, 52.87 W max.	39.9 W typical, 48.04 W max.	37.4 W typical, 53.65 W max.	40.9 W typical, 49.5 W max.
	With Performance Modular Box PC	43.6 W typical, 57.87 W max.	44.9 W typical, 53.04 W max.	42.6 W typical, 58.65 W max.	46.1 W typical, 54.5 W max.
	With Display Adapter	17.87 W max.	13.04 W max.	18.65 W max.	14.5 W max.
<b>Mounting</b>	Panel PC (with Box PC HMIDM)	On front enclosure or VESA 100 × 100 with mounting kit HMIYPVESA●●●●●1 on the rear of Box PC			
	Panel Monitor (with Display Adapter HMIADAD)	On front enclosure or VESA 100 × 100 on the rear of Display Adapter			
<b>Dimensions</b>	Overall dimensions (W × H × D)	319.1×245.1×66.3 mm/ 12.56×9.65×2.61 in.	390.7×290×28 mm/ 15.38×11.42×1.10 in.	329.2×231.3×66.3 mm/ 12.96×9.11×2.61 in.	419.7×269×28 mm/ 16.52×10.59×1.10 in.
	Cut-out (W × H)	301.5 × 227.5 mm/ 11.87 × 8.96 in.	383.5 × 282.5 mm/ 15.10 × 11.12 in.	310 × 221 mm/ 12.20 × 8.70 in.	412.4 × 261.7 mm/ 16.24 × 10.30 in.
<b>Temperature</b>	During operation	Conforming to EN/IEC 60068-2-30: 0...55 °C/32...131 °F (1)			
	During storage	Conforming to IEC 61000-4/ EN 55011: -30...70 °C/-22...158 °F			
<b>References</b>		<b>HMIDM6421</b>	<b>HMIDM7421</b>	<b>HMIDM6521</b>	<b>HMIDM7521</b>
<b>Page</b>		4/27			

(1) Except Box PC with 2x mini PCIe + display: limited to 45 °C/113 °F.  
 (2) CE ATEX and IECEx HazLoc 3GD Zone 2/22.

Magelis HMIDM Modular Display		Magelis HMIADAD Display Adapter
W19" touch screen	W22" touch screen	



<b>Screen</b>	LED LCD 5-point multi-touch projected capacitive technology screen		HMIDM Modular Display with HMIADAD Display Adapter, making remote monitors as: <input type="checkbox"/> Local display (maximum distance of 5 m/16.4 ft) <input type="checkbox"/> Remote display (up to 4 daisy chain displays with same screen definition, and maximum distance of 100 m/328 ft for 1st display to 400 m/1312 ft for 4th display)
	W18.5"	W21.5"	
	WHD FWXGA, 1366 × 768 pixels, 16.7 million colors	Full HD, 1920 × 1080 pixels, 16.7 million colors	
	IP66, Nema 4x indoor front panel, and 7H hardness anti-scratch		
	≥ 300 cd/m <sup>2</sup> , stepless adjustment		
	Vertical 140°, horizontal 150°	Vertical 150°, horizontal 150°	
	50,000 hours		
	–		
–		1x USB 2.0 (Type B), 1 Display Port	
From Box PC or mounted Display Adapter		24 V $\overline{\text{---}}$ or 100...240 V $\sim$ with external power adapter	
No		No	
No		Yes	
CE, EAC, RCM, cULus (UL IT 60950, CSA IT 60950), FCC (part 15 EMC Class A)		CE, cULus CSA 22-2 No 142, cULus HazLoc Class I Division 2 (ANSI/ISA 12-12-01, CSA 22-2 No 213), ATEX, IECEx, FCC (part 15 EMC Class A), CCC	
43.1 W typical, 58.28 W max.	45.2 W typical, 59.85 W max.	According to Magelis HMIDM Modular Display mounted on front	
48.1 W typical, 63.28 W max.	50.7 W typical, 64.85 W max.		
23.28 W max.	24.85 W max.	–	
On front enclosure or VESA 100 × 100 with mounting kit HMIYPVESA●●●●●1 on the rear of Box PC		–	
On front enclosure or VESA 100 × 100 on the rear of Display Adapter		On the back of Modular Display HMIDM	
488 × 309 × 28 mm/19.22 × 12.17 × 1.10 in.	558.4 × 349.8 × 28 mm/21.98 × 13.77 × 1.10 in.	254 × 207 × 37 mm/10 × 8.15 × 1.46 in.	
479.3 × 300.3 mm/18.87 × 11.82 in.	550.3 × 341.8 mm/21.66 × 13.45 in.	According to Magelis HMIDM Modular Display mounted on front	
Conforming to EN/IEC 60068-2-30: 0...55 °C/32...131 °F (1)		0...55 °C/32...131 °F	
Conforming to IEC 61000-4/ EN 55011: -30...70 °C/-22...158 °F		-30...70 °C/-22...158 °F	
<b>HMIDM9521</b>	<b>HMIDMA521</b>	<b>HMIADAP11</b>	
4/27		4/31	

(1) Except Box PC with 2x mini PCIe + display: limited to 45 °C/113 °F.  
 (2) CE ATEX and IECEx HazLoc 3GD Zone 2/22.



Magelis HMIDM 22" Modular Display

### Presentation

Magelis HMIDM Modular Displays are monitors designed to be easily integrated with:

- Magelis HMIBM Modular Box PCs (1) to make a Panel PC
- Magelis HMIDAD Display Adapter (2) to make a Panel monitor, to be remotely mounted from the PC with Display Port and USB cable (up to 5 m/16.4 ft) or with RJ45 cable (up to 4 Display and 400 m/1312 ft)

In addition to multiple choices, the modularity feature reduces maintenance as the Display can be independently replaced without changing the complete Panel PC or Panel Monitor.

HMIDM Modular Displays are available in:

- 4:3 12" and 15" single-touch resistive screens for easy substitution of legacy Panel PCs, operation with heavy gloves, and front USB connection port
- 16:9 W12", W15", W19" and W22" multi-touch capacitive screens for smartphone or tablet-like navigation on EcoStruxure Operator Terminal Expert software and for displaying SCADA screens in wide format

Magelis HMIDM 4:3 12"/15" and 16:9 12"/15" screens are certified for cULus Industrial Control and Hazardous Locations. The Magelis HMIDM 4:3/16:9 15" displays are also IECEx ATEX and Marine DNV certified. When mounted with Magelis HMIBM Modular Box PCs or HMIDAD Display Adapter with similar certifications, these displays can be used for advanced automation applications.

### Overview of the offer

#### Magelis HMIDM Modular Display

The Magelis HMIDM Modular Display offer comprises 6 references, each equipped with:

- **HMIDM6421**
  - Resolution: XGA, 1024 × 768 pixels, 16.7 million colors
  - Size and type: 4:3 12.1", single-touch resistive screen
  - View angle: Vertical 115°, horizontal 140°
- **HMIDM7421**
  - Resolution: XGA, 1024 × 768 pixels, 16.7 million colors
  - Size and type: 4:3 15", single-touch resistive screen
  - View angle: Vertical 115°, horizontal 140°
- **HMIDM6521**
  - Resolution: WHD WXGA, 1280 X 800 pixels, 16.7 million colors
  - Size and type: W12.1", multi-touch projected capacitive technology screen
  - View angle: Vertical 115°, horizontal 140°
- **HMIDM7521**
  - Resolution: WHD FWXGA, 1366 × 768 pixels, 16.7 million colors
  - Size and type: W15.6", multi-touch projected capacitive technology screen
  - View angle: Vertical 140°, horizontal 150°
- **HMIDM9521**
  - Resolution: WHD FWXGA, 1366 × 768 pixels, 16.7 million colors
  - Size and type: W18.5", multi-touch projected capacitive technology screen
  - View angle: Vertical 140°, horizontal 150°
- **HMIDMA521**
  - Resolution: Full HD, 1920 × 1080 pixels, 16.7 million colors
  - Size and type: W21.5", multi-touch projected capacitive technology screen
  - View angle: Vertical 150°, horizontal 150°

(1) For more information, please refer to pages 4/12 to 4/15.

(2) For more information, please refer to pages 4/28.



### Presentation (continued)

#### Architecture

Magelis HMIDM Displays are compatible and easily mountable with all HMIBM Modular Box PCs and HMIDAD Display Adapter.



### References

#### Magelis HMIDM Modular Displays

PF143853A



HMIDM9521

Description	Screen	Interface	Reference	Weight kg/lb
4:3 12" TFT LED LCD display	12", XGA (1024 × 768 pixels)	Single-touch resistive	<b>HMIDM6421</b>	2.30/ 5.07
4:3 15" TFT LED LCD display	15", XGA (1024 × 768 pixels)		<b>HMIDM7421</b>	4.20/ 9.20
16:9 12" TFT LED LCD display	12", WHD/FWXGA (1280 × 800 pixels)	Multi-touch capacitive	<b>HMIDM6521</b>	2.25/ 4.96
16:9 15" TFT LED LCD display	15.6", WHD/FWXGA (1366 × 768 pixels)		<b>HMIDM7521</b>	4.30/ 9.50
16:9 19" TFT LED LCD display	18.5", WHD/FWXGA (1366 × 768 pixels)		<b>HMIDM9521</b>	5.20/ 11.50
16:9 22" TFT LED LCD display	21.5", Full HD/FWXGA (1920 × 1080 pixels)		<b>HMIDMA521</b>	6.60/ 14.50

#### Separate components

PF110398B

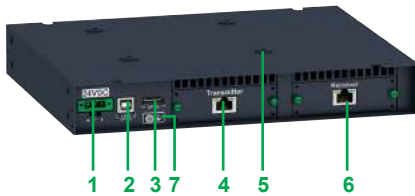


HMIYP752PS11

Description	Details	Compatible with HMIDM Display	Reference	Weight kg/lb
<b>Removable protective sheet</b>	Set of 5 protective sheets for 4:3 12"	HMIDM6421	<b>MPCYK20SPSKIT</b>	–
	Set of 5 protective sheets for 4:3 15"	HMIDM7421	<b>MPCYK50SPSKIT</b>	–
	Set of 5 protective sheets for HMIDM W12"	HMIDM6521	<b>HMIYP652PS11</b>	–
	Set of 5 protective sheets for W15"	HMIDM7521	<b>HMIYP752PS11</b>	–
	Set of 5 protective sheets for W19"	HMIDM9521	<b>HMIYP952PS11</b>	–
	Set of 5 protective sheets for W22"	HMIDMA521	<b>HMIYPA52PS11</b>	–



Magelis HMIDAD Display Adapter



4

## Presentation

The Magelis HMIDAD Display Adapter can be used to remotely connect a Magelis Modular Display to a Magelis iPC or a third-party PC.

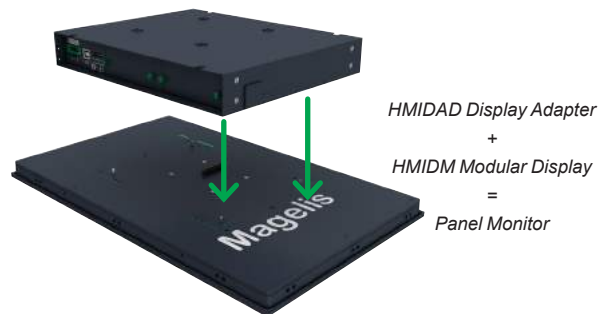
## Description

### Rear view

- 1 DC power supply connection
- 2 USB port type B (USB 2.0 for touch screen OUT) (1)
- 3 Display port (IN) (1)
- 4 Transmitter module (HMIYDATR11) with RJ45 port (2)
- 5 Mounting holes for the VESA
- 6 Receiver module (HMIYDARE11) with RJ45 port (2)
- 7 USB locker

## Architecture

The Display Adapter is mounted on the rear side of the display as shown below:



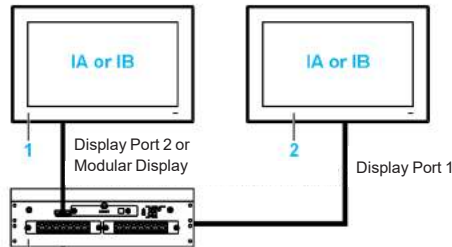
(1) Not operational with Receiver module mounted.

(2) Optional modules.

#### Configuration

##### Local display

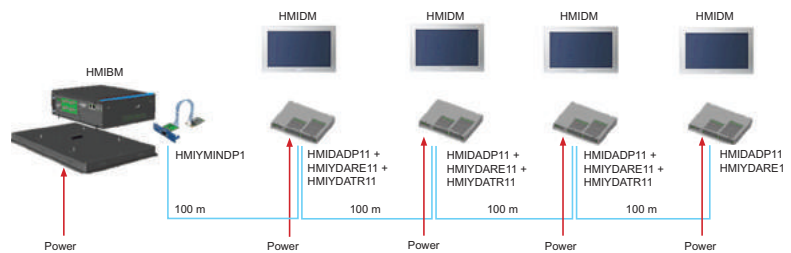
The PC is connected to Display Adapter by 1x USB cable for touch screen and 1x Display Port cable for video with a maximum distance of 5 m/16.4 ft.



##### Remote display

The Magelis iPC with mini PCIe interface can support up to 4 displays with the same screen definition (maximum distance of 100 m/328 ft between each display) when connected to Display adapters that are equipped with transmitter and receiver modules in a daisy chain configuration.

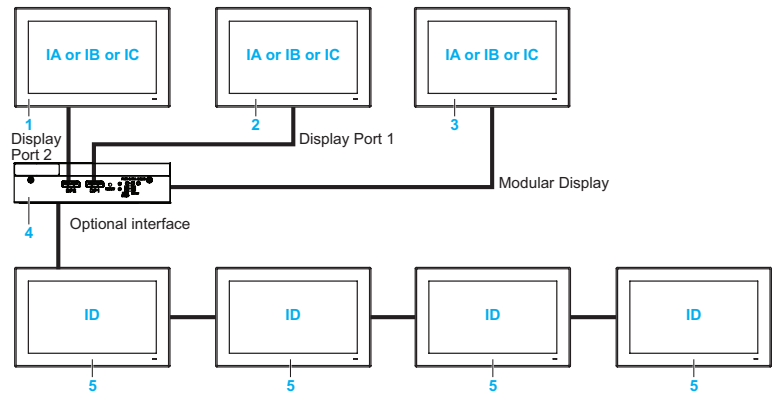
In this configuration, each remote display includes an HMIDM Modular Display + a HMIDADP11 Display Adapter + a HMIYDARE11 Receiver module + a HMIYDATR11 Transmitter module (not required for the last display in the chain).



For long distance remote displays:

- Limited to one HMIYMINDP1 mini PCIe per HMIBM Box iPC.
- To set up mini PCIe to Display Adapter Interface (HMIYMINDP1), a display or a third-party panel on host PC is required to install the driver. Once remote display set-ups are ready, the display on host PC can be removed if not used.
- The remote display cable does not support normal LAN HUB or switch as signal type is different.
- CAT6 cable is recommended. CAT5e cable may be used for shorter distances, according to environment conditions and with the maximum screen resolution of 1920 x 1080 pixels.
- The display touch panels can be disabled. When activated, the touch panel on the remote displays can be used only one at a time (waiting time 100 ms).
- The Display Adapter with display does not support brightness control. The brightness is fixed at 100%.
- With remote display (100 m/328 ft) cable, the touch-beep sound cannot be heard from the touch panel side as the buzzer is on the Box iPC side.
- When the host PC is off, or when one of the displays in the daisy chain is off or disconnected, the next displays in the chain get a NO SIGNAL message on their screens.

**Example of displays connected to Magelis HMIBMO**



IA, IB, IC, ID Images (with Windows setting)

**1, 2, 3** Local displays and Display Adapters

**4** Magelis HMIBMO Optimized Modular Box with HMIYMINDP1x mini PCIe transmitter interface with RJ45 port

**5** Magelis HMIDM Modular Display + HMIDADP11 Display Adapters + HMIYDARE11 Receiver module + HMIYDATR11 Transmitter module (not required for the last display in the chain), making a daisy chain of up to 4 remote displays with the same screen definition (set by the receiver module or in the Windows settings)

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIDM Modular Display

### Magelis HMIDAD Display Adapter



HMIPSOS752D1801



HMIYCABDP51



HMIYCABUSB51



HMIYMINDP1



HMIYDARE11



HMIYDATR11

#### Magelis HMIDAD Display Adapter

Description	Characteristics	Supply voltage	Compatible with	Reference	Weight kg/lb
Display Adapter	USB port (OUT) + Display Port (IN) for cable up to 5 m/16.4 ft	24 V $\overline{\text{---}}$ (1)	Magelis iPC and third-party PCs	HMIDADP11	1.8/3.96

#### Accessories

Description	Characteristics	Compatible with	Reference	Weight kg/lb
DVI to DP cable	3 m/9.84 ft	From PC with DVI port to HMIDAD Display Adapter	HMIYCABDPDVI31	—
DP to DP cable	Display Port to Display Port, 5 m/16.4 ft cable for digital video signal	From HMIBM Modular Box PC to HMIDAD Display Adapter	HMIYCABDP51	—
USB cable	USB to USB, 5 m/16.4 ft cable for touch screen signal	From HMIDAD Display Adapter to HMIBM Modular Box PC	HMIYCABUSB51	—
Transmitter interface for Magelis HMIBM Box PC	Mini PCIe to Display Adapter interface with 1x RJ45 port for category 5 or 6 cable (without Hub or Switch)	For HMIBM Box PC with optional interface to connect to first HMIYDARE11 receiver in the chain mounted in HMIDADP11 Display Adapter (2)	HMIYMINDP1	—
Receiver for Display Adapter	Receiver module with 1x RJ45 port for category 5 or 6 cable (without Hub or Switch)	For HMIDADP11 Display Adapter to connect to next HMIYDATR11 transmitter in the chain	HMIYDARE11	—
Transmitter for Display Adapter	Transmitter module with 1x RJ45 port for category 5 or 6 cable (without Hub or Switch).	For HMIDADP11 Display Adapter to connect to next HMIYDARE11 receiver in the chain (not required for the last display in the chain)	HMIYDATR11	—
AC power supply	External AC power adapter, 60 W	For HMIDADP11 Display Adapter	HMIYPSOMAC1	—
Modular AC power supply	Modular AC power adapter, 100 W for hazardous locations	For HMIDADP11 Display Adapter	HMIYMMAC1	—

- (1) For AC power supply, additional power supply module HMIYPSOMAC1 or HMIYMMAC1 is required. For AC in hazardous locations, AC power supply module HMIYMMAC1 product version PV02 is required.
- (2) HMIYMINDP1 cannot be used with HMIYMINDVII1/HMIYMINVGADVID1. HMIYMINDP1 and HMIYMINUSB1 cannot be used together in HMIBMP/HMIBMU. Remove the existing driver to install HMIYMINDP1/HMIYMINDVII1/HMIYMINVGADVID1 in Modular Box PC HMIBM.



#### Configured-To-Order Magelis HMIBM Modular Box PC and HMIDM Modular Display

"Configured-To-Order" industrial PCs offer a vast number of configuration combinations for Magelis iPCs with certifications. The Schneider Electric Customer Care Center can help you configure the right Magelis iPC based on your automation application and provide a quotation. A web configurator <http://www.hmisource.com/wwipcc> is also available to help you easily build the configuration by yourself (password = Magelis). Our Customer Care Center or the Web configurator will provide the complete parts list for the configured Magelis Modular Box PC/Display and a configuration code that will be the part number of the Magelis iPC.

#### Ordering procedure for a configured Magelis HMIBM Modular Box PC and HMIDM Modular Display

If you have built your Magelis iPC configuration with the Web Configurator:

- 1 Please forward the e-mail received from the Web Configurator to our Customer Care Center. This e-mail contains a PDF file with your configuration description and part number code.
- 2 If required, specify the reference root part number GCR\_HMIPCCP2.

If you cannot access the Magelis iPC Web Configurator:

- 3 Please contact our Customer Care Center and state the reference root part number GCR\_HMIPCCP2.
- 4 Configure your Magelis Panel PC (see table below) and get your quote with the support of our Customer Care Center.
- 5 Confirm your order.

#### Configured-To-Order options for Magelis HMIBM Modular Box PC and HMIDM Modular Display

Option	Description
<b>Box PC or Display Adapter</b>	Magelis HMIBM Box PC (Basic, Optimized, Universal, Performance) Magelis HMIBSC Core Box Magelis HMIDAD Display Adapter
<b>Modular Displays (pre-mounted)</b>	None Magelis HMIDM Modular Display 4:3 12"/4:3 15"- XGA Magelis HMIDM Modular Display W12"/W15"- FWXGA Magelis HMIDM Modular Display W22" - FHD
<b>CPU</b>	None (Display Adapter) Universal, Intel® Celeron® 2980U fanless Universal, Intel Celeron 2980U with fan for expansion card above 3 W Performance, Intel Core™ i7-4650U fanless Performance, Intel Core i7-4650U with fan for expansion card above 3 W
<b>Power supply</b>	DC AC
<b>Windows operating system</b>	None WES7 Premium SP1 64-bit Multi-language Windows 7 Ultimate FES SP1 64-bit Multi-language Windows 8.1 Industry 64-bit Multi-language Windows 10 IoT Enterprise (64-bit Multi-language) Linux Yocto
<b>Main storage device for operating system</b>	None CFast 32 GB M.2 64 GB/128 GB/250 GB HDD 500 GB/1 TB SSD 128 GB/256 GB
<b>Optional interfaces (pre-mounted)</b>	None NVRAM 2 RS-422/485 isolated or 4 RS-422/485 2 RS-232 isolated or 4 RS-232 16 DI/8 DO Video (DVI and VGA ports) Audio Cellular 3G/4G Transmitter to Display adapter Analog inputs Wireless LAN + 2 antennas 2 CANopen CAN bus Profibus DP Master with NVRAM Cyber security TPM module
<b>PCI slot configuration</b>	None (Display Adapter) 2 full-size mini PCIe 2 full-size mini PCIe + 1 PCIe (x1) + 1 PCI 2 full-size mini PCIe + 1 PCIe (x4) + 1 PCI 2 full-size mini PCIe + 2 PCI 2 full-size mini PCIe + 1 PCIe (x1) + 1 PCIe
<b>Software bundle</b>	None EcoStruxure Operator Terminal Expert Run Time unlimited license Citect SCADA DVD (1) EcoStruxure Machine SCADA Expert 1500 tags Run Time license EcoStruxure Machine SCADA Expert 4000 tags Run Time license EcoStruxure Machine SCADA Expert 64000 tags Run Time license

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC and HMIDM Modular Display

#### Equivalent product table

Legacy Magelis iPC		Replaced by Magelis iPC		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
<b>Magelis Panel PC - 15" Optimum</b>		<b>Magelis HMIBM Box PC + Magelis HMIDM Modular Display</b>			
Magelis Optimum 15" Panel PC, CFast card, 24 V ~	HMIPWC7D0E01	Magelis Universal Box PC, CFast card, WES 7, 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUCI29D2W01 + HMIDM7421		
<b>Magelis Panel PC - 12" Universal</b>		<b>Magelis HMIBM Optimized Modular Box PC + Magelis HMIDM Modular Display</b>			
Magelis Universal 12" Panel PC, HDD, 100...240 V ~	HMIPUH6A0701	Magelis Optimized Box PC, M.2, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 12" Display, single-touch	HMIBMOMA5DDF10L + HMIYPSOMAC1 + HMIDM6421		
Magelis Universal 12" Panel PC, HDD, 24 V ~	HMIPUH6D0701	Magelis Optimized Box PC, M.2, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + Magelis 4:3 12" Display, single-touch	HMIBMOMA5DDF10L + HMIDM6421		
Magelis Universal 12" Panel PC, SSD, 100...240 V ~	HMIPUF6A0701	Magelis Optimized Box PC, M.2, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 12" Display, single-touch	HMIBMOMA5DDF10L + HMIYPSOMAC1 + HMIDM6421		
Magelis Universal 12" Panel PC, SSD, 24 V ~	HMIPUF6D0701	Magelis Optimized Box PC, M.2, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + Magelis 4:3 12" Display, single-touch	HMIBMOMA5DDF10L + HMIDM6421		
Magelis Universal 12" Panel PC, CFast, 100...240 V ~	HMIPUC6A0E01	Magelis Optimized Box PC, M.2, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 12" Display, single-touch	HMIBMOMA5DD1101 + HMIYPSOMAC1 + HMIDM6421		
Magelis Universal 12" Panel PC, CFast, 24 V ~	HMIPUC6D0E01	Magelis Performance Box PC, Base unit, 24 V ~ + Magelis 4:3 12" Display, single-touch	HMIBMP0I74D2001 + HMIDM6421		
Magelis Universal 12" Panel PC, Base unit	HMIPU06D0001	Magelis Optimized Box PC, Base unit 4 GB + Box PC Optimized DC Base unit 4 GB	HMIBMO0A5DD1001 + HMIDM6421		
<b>Magelis Panel PC - 15" Universal</b>		<b>Magelis HMIBM Modular Box PC + Magelis HMIDM Modular Display</b>			
Magelis Universal 15" Panel PC, Hard disk, 2 slots, 100...240 V ~	HMIPUH7A2P01	Magelis Universal Box PC, HDD, 4 slots, Windows 10, 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMUHI29D4801 + HMIYMMAC1 + HMIDM7421		
Magelis Universal 15" Panel PC, Hard disk, 2 slots, 24 V ~	HMIPUH7D2P01	Magelis Universal Box PC, HDD, 4 slots, Windows 10, 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUHI29D4801 + HMIDM7421		
Magelis Universal 15" Panel PC, SSD, 2 slots, 100...240 V ~ Citect SCADA Full 500 I/O	HMIPUF7A2PF1	Magelis Universal Box PC, SSD, 4 slots, Windows 10, 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch + Citect SCADA software (1)	HMIBMUSI29D4801 + HMIYMMAC1 + HMIDM7421		
Magelis Universal 15" Panel PC, SSD, 2 slots, 100...240 V ~	HMIPUF7A2P01	Magelis Universal Box PC, SSD, 4 slots, Windows 10, 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMUSI29D4801 + HMIYMMAC1 + HMIDM7421		
Magelis Universal 15" Panel PC, Hard disk, 100...240 V ~	HMIPUH7A0P01	Magelis Universal Box PC, HDD, 2 slots, Windows 10, 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMUHI29D2801 + HMIYMMAC1 + HMIDM7421		
Magelis Universal 15" Panel PC, Hard disk, 24 V ~	HMIPUH7D0P01	Magelis Universal Box PC, HDD, 2 slots, Windows 10, 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUHI29D2801 + HMIDM7421		
Magelis Universal 15" Panel PC, SSD, 24 V ~ Citect SCADA Lite 1200 I/O	HMIPUF7D0PL1	Magelis Universal Box PC, SSD, 2 slots, Windows 10, 24 V ~ + Magelis 4:3 15" Display, single-touch + Citect SCADA software (1)	HMIBMUSI29D2801 + HMIDM7421		
Magelis Universal 15" Panel PC, SSD, 100...240 V ~	HMIPUF7A0P01	Magelis Universal Box PC, SSD, 2 slots, Windows 10, 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMUSI29D2801 + HMIYMMAC1 + HMIDM7421		
Magelis Universal 15" Panel PC, SSD, 24 V ~	HMIPUF7D0P01	Magelis Universal Box PC, SSD, 2 slots, Windows 10, 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUSI29D2801 + HMIDM7421		
Magelis Universal 15" Panel PC, CFast card, 24 V ~	HMIPUC7D0E01	Magelis Universal Box PC, CFast card, WES 7, 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUCI29D2W01 + HMIDM7421		
		Cut-out or screen definition	Identical		
			Different		

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC and HMIDM Modular Display

#### Equivalent product table

Legacy Magelis iPC		Replaced by Magelis iPC		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
<b>Magelis Panel PC - 19" Universal</b>		<b>Magelis HMIBM Modular Box PC + Magelis HMIDM Modular Display</b>			
Magelis Universal 19" Panel PC, Hard disk, 2 slots, 100...240 V ~	HMIPUH9A2P01	Magelis Universal Box PC, HDD, 4 slots, Windows 10, 24 V --- + AC power supply module + Magelis W19" Display, multi-touch	HMIBMUHI29D4801 + HMIYMMAC1 + HMIDM9521		
Magelis Universal 19" Panel PC, Hard disk, 2 slots, 24 V ---	HMIPUH9D2P01	Magelis Universal Box PC, HDD, 4 slots, Windows 10, 24 V --- + Magelis W19" Display, multi-touch	HMIBMUHI29D4801 + HMIDM9521		
Magelis Universal 19" Panel PC, SSD, 2 slots, 100...240 V ~ Citect SCADA Full 500 I/O	HMIPUF9A2PF1	Magelis Universal Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch + Citect SCADA software (1)	HMIBMUSI29D4801 + HMIYMMAC1 + HMIDM9521		
Magelis Universal 19" Panel PC, SSD, 2 slots, 100...240 V ~	HMIPUF9A2P01	Magelis Universal Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch	HMIBMUSI29D4801 + HMIYMMAC1 + HMIDM9521		
Magelis Universal 19" Panel PC, Hard disk, 100...240 V ~	HMIPUH9A0P01	Magelis Universal Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch	HMIBMUHI29D2801 + HMIYMMAC1 + HMIDM9521		
Magelis Universal 19" Panel PC, Hard disk, 24 V ---	HMIPUH9D0P01	Magelis Universal Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch	HMIBMUHI29D2801 + HMIDM9521		
Magelis Universal 19" Panel PC, SSD, 24 V --- Citect SCADA Lite 1,200 I/O	HMIPUF9D0PF1	Magelis Universal Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch + Citect SCADA software (1)	HMIBMUSI29D2801 + HMIDM9521		
Magelis Universal 19" Panel PC, SSD, 24 V ---	HMIPUF9D0P01	Magelis Universal Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch	HMIBMUSI29D2801 + HMIDM9521		
Magelis Universal 19" Panel PC, CFast card, 24 V ---	HMIPUC9D0E01	Magelis Universal Box PC, CFast card, WES 7, 24 V --- + Magelis W19" Display, multi-touch	HMIBMUCI29D2W01 + HMIDM9521		
				Cut-out or screen definition	
				Identical	
				Different	

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.



# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC and HMIDM Modular Display

#### Equivalent product table

Legacy Magelis iPC		Replaced by Magelis iPC		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
<b>Magelis Panel PC - 15" stainless steel bezel</b>		<b>Magelis HMIBM Modular Box PC + Magelis HMIDM Modular Display</b>			
Magelis Performance 15" Panel PC, HDD, 2 slots, 100...240 V ~	HMIPRH7A2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMPHI74D4801 (2) + HMIYMMAC1 + HMIDM7421		
Magelis Universal 15" Panel PC, HDD, 2 slots, 24 V ~	HMIPTH7D2P01	Magelis Universal Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUHI29D4801 (2) + HMIDM7421		
Magelis Universal 15" Panel PC, SSD, 2 slots, 24 V ~	HMIPTF7D2P01	Magelis Universal Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUSI29D4801 (2) + HMIDM7421		
Magelis Optimum 15" Panel PC, CFAST card, 24 V ~	HMIPVC7D0E01	Magelis Universal Box PC, CFAST card, WES 7, 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMUCI29D2W01 (2) + HMIDM7421		
<b>Magelis Panel PC - 12" Performance</b>		<b>Magelis HMIBM Performance Modular Box PC + Magelis HMIDM Modular Display</b>			
Magelis Performance 12" Panel PC, HDD, 2 slots, 100...240 V ~	HMIPPH6A2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 12" Display, single-touch	HMIBMPHI74D4801 + HMIYMMAC1 + HMIDM6421		
Magelis Performance 12" Panel PC, SSD, 2 slots, 100...240 V ~	HMIPPF6A2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 12" Display, single-touch	HMIBMPFI74D4801 + HMIYMMAC1 + HMIDM6421		
Magelis Performance 12" Panel PC, Base unit	HMIPPO6D0001	Magelis Performance Box PC, Base unit 2 slots, 24 V ~ + Magelis 4:3 12" Display, single-touch	HMIBMP0174D2001 + HMIDM6421		
<b>Magelis Panel PC - 15" Performance</b>		<b>Magelis HMIBM Box PC + Magelis HMIDM Modular Display</b>			
Magelis Performance 15" Panel PC, HDD, 2 slots, battery, 24 V ~	HMIPPH7B2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMPHI74D4801 + HMIDM7421		
Magelis Performance 15" Panel PC, Hard disk, 2 slots, 100...240 V ~	HMIPPH7A2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMPHI74D4801 + HMIYMMAC1 + HMIDM7421		
Magelis Performance 15" Panel PC, Hard disk, 2 slots, Windows XP, 100...240 V ~	HMIPPH7A2P01				
Magelis Performance 15" Panel PC, Hard disk, 2 slots, 24 V ~	HMIPPH7D2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + Magelis 4:3 15" Display, single-touch	HMIBMPHI74D4801 + HMIDM7421		
Magelis Performance 15" Panel PC, SSD, 2 slots, 100...240 V ~ Citect SCADA Full 500 I/O	HMIPPF7A27F1	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch + Citect SCADA software (1)	HMIBMPSI74D4801 + HMIYMMAC1 + HMIDM7421		
Magelis Performance 15" Panel PC, SSD, 2 slots, 100...240 V ~	HMIPPF7A2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ~ + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMPSI74D4801 + HMIYMMAC1 + HMIDM7421		
				Cut-out or screen definition	
				Identical	
				Different	

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

(2) No stainless steel bezel.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC and HMIDM Modular Display

#### Equivalent product table

Legacy Magelis iPC		Replaced by Magelis iPC		Compatibility	
Description	References	Description	References	Cut-out for flush mounting	Screen definition
<b>Magelis Panel PC - 15" Performance</b>		<b>Magelis HMIBM Modular Box PC + Magelis HMIDM Modular Display</b>			
Magelis Performance 15" Panel PC, SSD, 2 slots, Windows XP, 100...240 V ~	HMIPPF7A2P01	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMPSI74D4801 + HMIYMMAC1 + HMIDM7421		
Magelis Performance 15" Panel PC, Hard disk, 100...240 V ~	HMIPPH7A0701	Magelis Performance Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis 4:3 15" Display, single-touch	HMIBMPHI74D2801 + HMIYMMAC1 + HMIDM7421		
Magelis Performance 15" Panel PC, Hard disk, 24 V ---	HMIPPH7D0701	Magelis Performance Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis 4:3 15" Display, single-touch	HMIBMPHI74D2801 + HMIDM7421		
Magelis Performance 15" Panel PC, SSD, 24 V ---, Citect SCADA Full 500 I/O	HMIPPF7D07F1	Magelis Performance Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis 4:3 15" Display, single-touch + Citect SCADA software (1)	HMIBMPSI74D2801 + HMIDM7421		
Magelis Performance 15" Panel PC, SSD, 24 V ---	HMIPPF7D0701	Magelis Performance Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis 4:3 15" Display, single-touch	HMIBMPSI74D2801 + HMIDM7421		
<b>Magelis Panel PC - 19" Performance</b>		<b>Magelis HMIBM Box PC + Magelis HMIDM Modular Display</b>			
Magelis Performance 19" Panel PC, SSD, 2 slots, 100...240 V ~, Citect SCADA Full 500 I/O	HMIPPF9A27F1	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch + Citect SCADA software (1)	HMIBMPSI74D4801 + HMIYMMAC1 + HMIDM9521		
Magelis Performance 19" Panel PC, SSD, 2 slots, 100...240 V ~	HMIPPF9A2701	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch	HMIBMPSI74D4801 + HMIYMMAC1 + HMIDM9521		
Magelis Performance 19" Panel PC, Hard disk, 100...240 V ~	HMIPPH9A0701	Magelis Performance Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch	HMIBMPHI74D2801 + HMIYMMAC1 + HMIDM9521		
Magelis Performance 19" Panel PC, Hard disk, 24 V ---	HMIPPH9D0701	Magelis Performance Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch	HMIBMPHI74D2801 + HMIDM9521		
Magelis Performance 19" Panel PC, SSD, 24 V ---, Citect SCADA Full 500 I/O	HMIPPF9D07F1	Magelis Performance Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch + Citect SCADA software (1)	HMIBMPHI74D2801 + HMIDM9521		
Magelis Performance 19" Panel PC, SSD, 24 V ---	HMIPPF9D0701	Magelis Performance Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch	HMIBMPSI74D2801 + HMIDM9521		
Magelis Performance 19" Panel PC, Hard disk, 2 slots, 100...240 V ~	HMIPPH9A2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + AC power supply module + Magelis W19" Display, multi-touch	HMIBMPHI74D4801 + HMIYMMAC1 + HMIDM9521		
Magelis Performance 19" Panel PC, Hard disk, 2 slots, 24 V ---	HMIPPH9D2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Magelis W19" Display, multi-touch	HMIBMPHI74D4801 + HMIDM9521		
				<b>Cut-out or screen definition</b>	
			Identical		
			Different		

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIBM Modular Box PC and HMIDM Modular Display

#### Equivalent product table

Legacy Magelis iPC		Replaced by Magelis iPC	
Description	References	Description	References
<b>Magelis S-Box PC Universal HMIBS</b>		<b>Magelis HMIBM Modular Box PC</b>	
Magelis Optimized S-Box PC, 1 slot, 24 V ---	HMIBSO0ND1001	Magelis Modular Box PC, eMMC SSD, 1 slot, 24 V --- (2)	HMIBMIEA5DD1001
Magelis Optimized S-Box PC, CFast card, 1 slot, 24 V ---	HMIBSOCND1E01	Magelis Modular Box PC, eMMC SSD, 1 slot, 24 V --- (2)	HMIBMIMA5DD1101
Magelis Universal S-Box PC, CFast card, 1 slot, 24 V ---	HMIBSUCND1W01	Magelis Modular Box PC, M.2 SSD, 1 slot, 24 V --- (2)	HMIBMOMA5DD1101
Magelis Universal S-Box PC, SSD, 1 slot, 24 V ---	HMIBSUSND1W01	Magelis Modular Box PC, M.2 SSD, 1 slot, 24 V --- (2)	HMIBMOMA5DD1101
Magelis Universal S-Box PC, No OS, 1 slot, 24 V ---	HMIBSU0ND1001	Magelis Modular Box PC, No OS, 1 slot, 24 V --- (2)	HMIBMO0A5DD1001
<b>Magelis Box PC - Universal with 1 and 2 expansion slots</b>		<b>Magelis HMIBM Modular Box PC</b>	
Magelis Universal Box PC, Hard disk, 2 slots, 24 V ---	HMIBUHND2P01	Magelis Universal Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMUHI29D4801
Magelis Universal Box PC, SSD, 2 slots, 24 V ---, Citect SCADA Full 500 I/O	HMIBUFND2PF1	Magelis Universal Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Citect SCADA software (1)	HMIBMUSI29D4801
Magelis Universal Box PC, SSD, 2 slots, 24 V ---	HMIBUFND2P01	Magelis Universal Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMUSI29D4801
Magelis Universal Box PC, Hard disk, 1 slot, 24 V ---	HMIBUHND1P01	Magelis Universal Box PC, HDD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMUHI29D2801
Magelis Universal Box PC, SSD, 1 slot, 24 V ---, Citect SCADA Full 500 I/O	HMIBUFND1PF1	Magelis Universal Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Citect SCADA software (1)	HMIBMUSI29D2801
Magelis Universal Box PC, SSD, 1 slot, 24 V ---, Windows 7.0	HMIBUFND1701	Magelis Universal Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMUSI29D2801
Magelis Universal Box PC, SSD, 1 slot, 24 V ---	HMIBUFND1P01	Magelis Universal Box PC, SSD, 2 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMUSI29D2801
Magelis Universal Box PC, CFast card, 1 slot, 24 V ---	HMIBUCND1E01	Magelis Universal Box PC, CFast card, WES 7, 24 V ---	HMIBMUCI29D2W01
<b>Magelis Box PC - Performance with 2 and 5 expansion slots</b>		<b>Magelis HMIBM Modular Box PC</b>	
Magelis Performance Box PC, Hard disk, 5 slots, 24 V ---	HMIBPHDD5701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMPHI74D4801
Magelis Performance Box PC, SSD, 5 slots, 24 V ---, Citect SCADA Full 500 I/O	HMIBPFDD57F1	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Citect SCADA software (1)	HMIBMPSI74D4801
Magelis Performance Box PC, SSD, 5 slots, 24 V ---	HMIBPFDD5701	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMPSI74D4801
Magelis Performance Box PC, HDD, 2 slots, Windows XP Pro, 24 V ---	HMIBPHDB2P01	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMPHI74D4801
Magelis Performance Box PC, SSD, 2 slots, Windows XP Pro, 24 V ---	HMIBPFDB2P01	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMPSI74D4801
Magelis Performance Box PC, Hard disk, 2 slots, 24 V ---	HMIBPHDD2701	Magelis Performance Box PC, HDD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMPHI74D4801
Magelis Performance Box PC, SSD, 2 slots, 24 V ---, Citect SCADA Full 500 I/O	HMIBPFDD27F1	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V --- + Citect SCADA software (1)	HMIBMPSI74D4801
Magelis Performance Box PC, SSD, 2 slots, 24 V ---	HMIBPFDD2701	Magelis Performance Box PC, SSD, 4 slots, Windows 10 IoT Enterprise (64-bit Multi-language), 24 V ---	HMIBMPSI74D4801
<b>Configured part numbers for Magelis iPC</b>			
Configured Magelis iPC	HMIPCCe1000	Configured iPC	HMIPCCe2000

(1) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

(2) AC with power adapter HMIYPSOMAC1.



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## Magelis HMIR Rack PC - Optimized, Universal, and Performance

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■ **Presentation**

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- Storage drive trays and redundant Raid HDD ..... page 5/5
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■ **Description**

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# Industrial PCs


## Magelis™ iPCs for automation

### Magelis HMIR Rack PC

Optimized, Universal, and Performance

<b>Type of Magelis iPC (1)</b>		<b>Magelis HMIR<sup>o</sup>O Optimized Rack PC 2U</b>	
<b>Industrial environments</b>		<b>Control rooms and labs</b>	
			
<b>CPU</b>	3 <sup>rd</sup> generation Processor	Intel Core G540 (2.5 GHz), dual-core	Intel Core G850 (2.9 GHz), dual-core
	Micro ATX/ATX Motherboard	Micro ATX	
	PCI Express <sup>®</sup> slot/PCI	2x PCI Express (x8) + 1 PCI	
	Storage	1 internal slot (SATA3) + 2 hot-swap trays (SATA2)	
	Slots	1x HDD ≥ 500 GB consumer, in internal slot with OS	1x HDD ≥ 500 GB Enterprise 24/7, in internal slot
	Drives	–	–
	RAM (max. 32 GB) (2)	2 GB DDR3 in 1 slot	
<b>Operating system</b>		Windows <sup>®</sup> 7 32-bit (WES 7 Premium full blown)	Windows 7 64-bit (WES 7 Premium full blown)
<b>Supply voltage</b>		100...240 V ~ (300 W single power supply)	
<b>Cooling method</b>		3 fans, user-exchangeable with fan speed control to reduce noise	
<b>Interface</b>	Ethernet	2x Ethernet 10/100/1,000 Mbps	
	Serial ports	2x RS-232 (+ 3 RS-232 + 1 RS-485 optional with additional HMIYRINSL21)	
	USB ports	2x USB 2.0, 4x USB 3.0	
	Audio	2x (Mic, line-out)	
	Video	1x VGA + 1x DVI	
	Interface Resolution	VGA: Up to 2048 × 1536 at 60 Hz, DVI: Up to 1920 × 1200 at 60 Hz	
	DVD-RW drive	1x DVD-RW drive	
	Watchdog timer	System reset output, programmable 1...255 s/min	
	Reset button, buzzer, Case-open switch	Yes	
<b>Mounting</b>		2U in 19" HMIR enclosure (1)	
<b>Overall dimensions (W x H x D)</b>		482 × 88.4 × 481.4 mm/18.98 × 3.48 × 18.95 in.	
<b>Degree of protection</b>		IP40	
<b>Temperature</b>	During operation	Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F	
	During storage	Conforming to IEC 60068-2-2: -20...60 °C/-4...140 °F	
<b>Humidity</b>	During operation	Conforming to IEC 60068-2-78: 10...85% at 40 °C/104 °F, non-condensing	
	During storage	Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing	
<b>Vibration resistance</b>	During operation	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)	
<b>Shock resistance</b>	During operation	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)	
<b>Standards and certifications</b>		CE, cULus (UL 60950-1, CSA 22.2 No.60950-1-07), CCC, RMC	
<b>Compatible screens</b>		Complete range of Magelis iDisplay screens (see page 6/5)	
<b>Software</b>	Vijeo Designer (3) and EcoStruxure Operator Terminal Expert Run Time Demo	<input type="checkbox"/> Vijeo Designer Run Time Demo (21-day trial version) to be installed from Software DVD. Unlimited license to be ordered separately (3) <input type="checkbox"/> EcoStruxure Operator Terminal Expert Run Time demo to be installed and activated by unlimited license HMIRTCWZLSPAZZ (Digital) or HMIRTCWZLSPMZZ (Paper).	
	Bundle (validated and supported) (5)	–	
<b>References</b>	Windows 7 64-bit (Ultimate Multi-language)	<b>HMIRXOHA3W01</b>	<b>HMIRSOHPA3W01</b>
	No operating system	–	<b>HMIRXOHA3001</b>
	Windows Server 2008 Standard R2	–	–
	Windows Server 2012 R2	–	–
<b>Page</b>		5/10	

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in an 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.  
 (2) 4 user-accessible RAM slots available.  
 (3) Requires Vijeo Designer V6.2 SP2 or later versions to build and download HMI application.

<b>Magelis HMIRSU Universal PC 2U</b>		<b>Magelis HMIRSP Performance PC 4U</b>			
<b>Control rooms and labs</b>					
					
	Intel Core i3-2120 processor (3.3 GHz), dual-core	Intel Xeon™ E3-1225 processor (3.1 GHz), quad-core			
	Micro ATX	ATX			
	2x PCI Express (x16) + 1x PCI	Up to 7 slots: 4 PCI Express (x16) + 3 PCI (including 1 PCI slot used for default removable audio connections)			
	4x front hot-swap trays (2 SATA2 + 2 SATA3)	1x internal slot (SATA3) + 4 hot-swap trays (SATA2)			
	1x HDD ≥ 500 GB Enterprise 24/7, in front tray with OS	1x SSD ≥ 128 GB in internal slot with OS (4)	1x HDD ≥ 500 GB Enterprise 24/7, in front tray with OS	1x SSD ≥ 128 GB in internal slot with OS (4)	2x HDD RAID ≥ 500 GB 24/7 in front trays with OS
	4 GB DDR3 in 2 slots	16 GB DDR3 in 2 slots	4 GB DDR3 in 2 slots	8 GB DDR3 in 2 slots	8 GB ECC in 2 slots
	Windows 7 64-bit (Ultimate Multi-language)	Windows 7 64-bit (Ultimate Multi-language)			Windows Server R2 (5 clients)
	100...240 V ~ (300 W single power supply)	100...240 V ~ (500 W redundant power supply)			
	3 fans, user-exchangeable with fan speed control to reduce noise	2 fans, user-exchangeable with fan speed control to reduce noise			
	2x Ethernet 10/100/1,000 Mbps	2x Ethernet 10/100/1,000 Mbps			
	2x RS-232 (+ 3 RS-232 + 1 RS-485 optional with additional HMIYRINSL21)	2x RS-232 (+ 4 optional with additional HMIYRINSL41)			
	2x USB 2.0, 4x USB 3.0	4x USB 2.0, 2x USB 3.0			
	2x (Mic, line-out)	2x (Mic, line-out), default in 1 PCI slot			
	1x VGA + 1x DVI	1x VGA + 1x DVI			
	VGA: Up to 2048 × 1536 at 60 Hz, DVI: Up to 1920 × 1200 at 60 Hz	VGA: Up to 2048 × 1536 at 60 Hz, DVI: Up to 1920 × 1200 at 60 Hz			
	1x DVD-RW drive	1x DVD-RW drive			
	System reset output, programmable 1...255 s/min	System reset output, programmable 1...255 s/min			
	Yes	Yes			
	2U in 19" HMIR enclosure (1)	4U in 19" HMIR enclosure (1)			
	482 × 88.4 × 523.8 mm/18.98 × 3.48 × 20.68 in.	482 × 172.7 × 601.4 mm/18.98 × 6.8 × 23.68 in.			
	IP40	IP40			
	Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F	Conforming to IEC 60068-2-2: 0...40 °C/32...104 °F			
	Conforming to IEC 60068-2-2: -20...60 °C/-4...140 °F	Conforming to IEC 60068-2-2: -40...70 °C/-40...158 °F			
	Conforming to IEC 60068-2-78: 10...85% at 40 °C/104 °F, non-condensing	Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing			
	Conforming to IEC 60068-2-78: 10...95% at 40 °C/104 °F, non-condensing	Conforming to IEC 60068-2-78: 10...95% at 60 °C/140 °F, non-condensing			
	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)			
	Conforming to IEC 60068-2-6: 1 g from 5...500 Hz (except for HDD drive)	Conforming to IEC 60068-2-27: 10 g/11 ms, half sine wave (except for HDD drive)			
	CE, cULus (UL 60950-1, CSA 22.2 No. 60950-1-07), CCC, RMC	CE, cULus (UL 60950-1, CSA 22.2 No. 60950-1-07), CCC, RMC			
	Complete range of Magelis iDisplay screens (see page 6/5)	Complete range of Magelis iDisplay screens (see page 6/5)			
	–	Citect SCADA DVD for SCADA applications	–	EcoStruxure Hybrid DCS leaflet	Citect SCADA DVD for SCADA applications
	–	–	–	–	EcoStruxure Hybrid DCS leaflet with Windows Server 2012 R2 only
	<b>HMIRSUH3A3701</b>	<b>HMIRSUS3A3701</b>	<b>HMIRSPHA6701</b>	<b>HMIRSPHA67P1</b>	<b>HMIRSPFA6701</b>
	–	–	–	–	–
	–	–	–	–	<b>HMIRSPXR6S01</b>
	–	–	–	–	<b>HMIRSPXR6T01</b>
<b>Page</b>		5/10			

(4) With 5-year manufacturers warranty and 1.5 million hours MTBF.  
 (5) Additional software license to be ordered separately.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### HMIR●O Optimized, HMIRSU Universal, and HMIRSP Performance

#### Presentation

Magelis HMIR Rack PCs are industrial PCs that can be easily installed in a 19" rack enclosure of an automation control room. The HMIRs have:

- Embedded fan speed control for reduced noise
- Hot-swappable drive trays
- Optional redundant RAID hard drive
- Remote system monitor for remote access
- Magelis iDisplay for display screen

The Rack PCs are tested, validated, and supported by Schneider Electric Plant StruXure software: Vijeo Designer and EcoStruxure Operator Terminal Expert HMI Software, Citect SCADA, and EcoStruxure Hybrid DCS Engineering. These PCs offer 4 years of service and minimum 4 years of commercial availability. They can also be extended and substituted to new compliant models.

The Magelis HMIR comprises the following UL60950-certified PCs for various requirements of a plant solution:

- Optimized Rack PC 2U (1): for operator stations and some dedicated applications in clean areas of industrial plants or labs
- Universal Rack PC 2U (1): for local SCADA and operator stations
- Performance Rack PC 4U (1): for Engineering and SCADA servers with redundant power supply and server operating system according to model

#### Overview of the offer

##### Magelis HMIR●O Optimized 2U (1)

The Optimized HMIRXO Rack PC has an Intel Core G540 dual-core CPU (2.5 GHz) on a Micro ATX motherboard, with:

- 2 GB DDR3 RAM (default mounted), user-expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 slot and 2 external SATA2 trays
- Expansions: 3 slots for 2 PCI Express® (x8), 1 PCI
- Connection ports: 6 USB 2.0 ports, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA, and 1 DVI for video
- 1 optical DVD-RW drive
- Operating systems and storage devices available are:
  - **HMIRXOHC3W01**: Windows® 7 32-bit (WES 7 Premium full blown) on 500 GB HDD, pre-installed
  - **HMIRXOHC3001**: No operating system and HDD
- Power supply: 100...240 V ~ 300 W

The Optimized HMIRSO Rack PC has an Intel Core G850 dual-core CPU (2.9 GHz) on a Micro ATX motherboard, with:

- 2 GB DDR3 RAM (default mounted), user-expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 slot and 2 external SATA2 trays
- Expansions: 3 slots for 2 PCI Express (x8), 1 PCI
- Connection ports: 2 USB 2.0, 4 USB 3.0, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA, 1 DVI, and 1 display port for video
- 1 optical DVD-RW drive
- Operating system: Windows 7 64-bit (WES 7 Premium full blown) on 500 GB HDD, pre-installed
- Power supply: 100...240 V ~ 300 W

##### Magelis HMIRSU Universal 2U (1)

The Universal HMIRSU Magelis Rack PC has an Intel Core i3-2120 dual-core CPU (3.3 GHz) on a Micro ATX motherboard, with:

- 4 GB DDR3 RAM (default mounted), user-expandable up to 32 GB in 4 slots
- 3.5" storage slots: 2 external SATA2 and 2 external SATA4 trays
- Free expansions: 3 slots for 2 PCI Express (x16), 1 PCI
- Connection ports: 2 USB 2.0, 4 USB 3.0, 2 RS-232 (+ 4 optional), 2 Gigabit Ethernet, Audio ports, 1 VGA, 1 DVI, and 1 display port for video
- 1 optical DVD-RW drive
- Operating system: Windows 7 64-bit (Ultimate multi-language installed)
- Storage devices available are:
  - **HMIRSUH3A3701**: 1x 500 GB Enterprise 24/7 HDD in a tray slot
  - **HMIRSUS3A3701**: 1x 128 GB SSD (5-year manufacturer warranty and 2 million hours MTBF) pre-installed in a tray slot (2)
- Power supply: 100...240 V ~ 300 W

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

(2) Recommended for SCADA applications and delivered with Citect SCADA DVD. For more information, see page 5/6.



Optimized Magelis Rack PC



Universal Magelis Rack PC

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### HMIR●O Optimized, HMIRSU Universal, and HMIRSP Performance



Performance Magelis Rack PC

#### Presentation (continued)

##### Magelis HMIRSP Performance 4U (1)

The Performance HMIRSP Rack PC has an Intel Xeon E3-1225 quad-core CPU (3.1 GHz) on an ATX motherboard, with:

- RAM, user-expandable up to 32 GB in 4 slots
- 3.5" storage slots: 1 internal SATA3 and 4 free external SATA2 trays
- Expansions: 4 PCI Express (x16), 3 PCI with 1 PCI slot used for removable audio connections
- Connection ports: 4 USB 2.0, 2 USB 3.0, 1 RS-232 (+ 4 optional), 2 Gigabit Ethernet, 1 VGA, and 1 DVI port for video
- 1 optical DVD-RW drive

Depending on the HMIRSP model, various default RAMs, storage devices, operating systems, power supplies, and software bundles are available:

- **HMIRSPHXA6701**: 4 GB DDR3 RAM (default mounted), 1x 500 GB Enterprise 24/7 HDD in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single 100...240 V ~ power supply 500 W
- **HMIRSPHXA67P1** (2): 16 GB DDR3 RAM (default mounted), 1x 500 GB Enterprise 24/7 HDD in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single 100...240 V ~ power supply 500 W
- **HMIRSPFXA6701** (3): 4 GB DDR3 RAM (default mounted), 1x 128 GB SSD (5-year manufacturer warranty and 2 million hours MTBF) in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, single 100...240 V ~ power supply 500 W
- **HMIRSPFXR6702** (3): 4 GB DDR3 RAM (default mounted), 1x 128 GB SSD (5-year manufacturer warranty and 2 million hours MTBF) in a tray slot, Windows 7 64-bit (Ultimate MUI) operating system, redundant 100...240 V ~ power supply 500 W
- **HMIRSPSXR6S01** (4): 8 GB ECC RAM (default mounted), 2x 500 GB Enterprise 24/7 HDD in redundant RAID configuration installed in 2 tray slots, Windows server 2008 standard R2 operating system including 5 clients, redundant 100...240 V ~ power supply 500 W
- **HMIRSPSXR6T01** (4): 8 GB ECC RAM (default mounted), 2x 500 GB Enterprise 24/7 HDD in redundant RAID configuration installed in 2 tray slots, Windows Server 2012 R2 operating system including 5 clients, redundant 100...240 V ~ power supply 500 W

#### Storage drive trays and redundant Raid HDD

Magelis HMIRs have hot-swappable front trays for storage devices. These trays can be used for a redundant Raid HDD configuration. The Rack PC chipset supports Intel Rapid Storage Technology with internal RAID feature so that when 2 HDDs are available in trays, the RAID can be configured in 2 steps:

- 1 Assign RAID via the configuration menus in the BIOS.
- 2 Adjust the RAID configuration options in the Intel Rapid Storage software provided.

#### Remote monitoring system for Magelis HMIR Rack PCs

Magelis HMIRs can be monitored remotely by installing the Remote Monitoring application provided on any PC. Several Magelis Rack PCs can be monitored for:

- Managing system recovery (backup and restore) and On/Off (e.g., overnight for energy saving)
- Monitoring system parameters such as network connection, system/CPU temperatures, fan speeds, and system voltages
- Configuring alerts via a popup, message, sound, or buzzer with event log entry and system shutdown
- Displaying e-mail alerts and function logs

(1) Rack 2U or 4U is a unit used to measure the height of an equipment that will be mounted in a 19" rack enclosure. 1 unit = 44.45 mm/1.75 in. high.

(2) Dedicated model for running PlantStruxure Process Expert as an engineering workstation. For more information, see page 5/6.

(3) Recommended for SCADA applications and delivered with Citect SCADA DVD. For more information, see page 5/6.

(4) Dedicated model for Windows Server operating system.

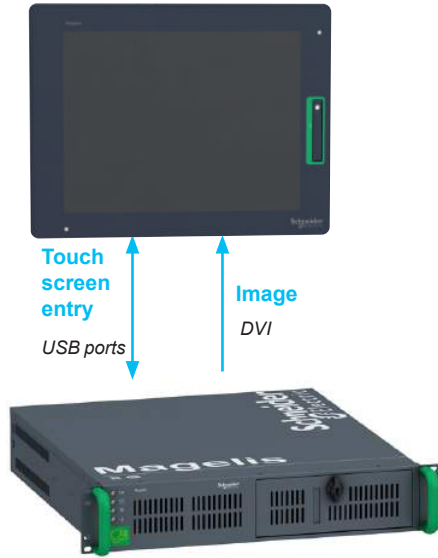


# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### HMIR●O Optimized, HMIRSU Universal, and HMIRSP Performance



Connection between Magelis Optimized Rack PC and Magelis iDisplay

### Presentation (continued)

#### Magelis iDisplay monitor for Magelis HMIR Rack PCs

Magelis Rack PCs can use a Magelis iDisplay monitor as a display screen by connecting via USB, VGA, or DVI ports. This monitor can be mounted in the cut-out that is created in the front of an enclosure door.

The HMIDID Magelis iDisplay models are 12" or 15" multi-touch screens, with 16 million colors and IP67f front panel protection. Depending on the model, they are certified for UL508, UL Hazardous Locations and Marine. For more information on Magelis iDisplay screens, see page 6/5.

#### Software bundles for Magelis HMIR Rack PCs

##### Vijeo Designer/EcoStruxure Operator Terminal Expert and Magelis Rack PC bundles (1)

Magelis Rack PCs are supported by Schneider Electric HMI software for automation. Vijeo Designer Run Time or EcoStruxure Operator Terminal Expert Run Time can be installed from the Vijeo Designer or EcoStruxure Operator Terminal Expert DVD included with Magelis HMIRs. Vijeo Designer Run Time can be upgraded to the unlimited version with an additional **VJDSNRTMPC** license (2). EcoStruxure Operator Terminal Expert can also be upgraded to the unlimited version with an additional **HMIRTWZLSPAZZ** (Digital) or **HMIRTWZLSPMZZ** (Paper) license.

##### Citect SCADA and Magelis HMIR bundles

The Citect SCADA and Magelis HMIR bundle, recommended for SCADA applications comprises:

- Dedicated models **HMIRSUS3A3701**, **HMIRSPFXA6701**, and **HMIRSPFXR6702** delivered with 4 GB RAM, 128 GB SSD (5-year manufacturer warranty and 2 million hours MTBF, allowing numerous read/write operations), and Windows 7 64-bit operating system
- Citect SCADA DVD is for installation only
- Recommended user upgrade of default 4 GB RAM in 1 slot with installation of additional **HMIYPRAM3040R1** 4 GB DDR3 RAM expansion in 2<sup>nd</sup> slot (3)
- Licenses for software activation have to be ordered separately

##### PlantStruxure and Magelis HMIR bundles

The PlantStruxure and Magelis HMIR (used as an engineering workstation) bundle comprises:

- Dedicated models:
  - **HMIRSPHXA67P1** with 16 GB RAM (default mounted) and Windows 7 64-bit operating system
  - **HMIRSPSXR6T01** with 8 GB RAM (default mounted) (4) and Windows Server 2012 R2
- Leaflet with instructions for downloading EcoStruxure Hybrid DCS from the website
- EcoStruxure Hybrid DCS licenses for software activation have to be ordered separately. For more information, please contact our Customer Care Center.
- Additional part numbers with pre-installed EcoStruxure Hybrid DCS software are available in the EcoStruxure Hybrid DCS catalog.

##### Actassi 19" rack enclosure for Magelis HMIR mounting

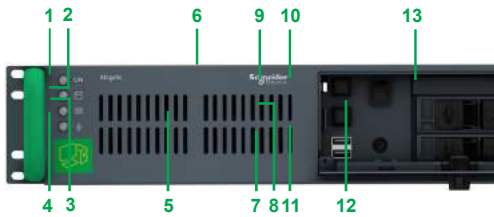
Magelis Rack PCs can be mounted on Actassi 19" Rack enclosures. Depending on the Rack PC model weight, additional mounting accessories such as fixed slides/long slides may be required. For more information on Actassi 19" enclosures and mounting accessories, please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).

(1) As Magelis Rack PC does not have SRAM, it is recommended to save data on a storage drive (USB stick or SSD) to avoid data loss.

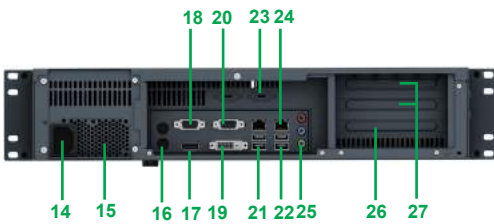
(2) Vijeo Designer Run Time is not supported on the Windows Server operating system.

(3) 8 GB RAM is recommended for running Citect SCADA as a server.

(4) 16 GB RAM is recommended to run EcoStruxure Hybrid DCS. User can upgrade with 2x 4 GB RAM ECC **HMIYPRAME040R1**.



Front view of Optimized Magelis Rack PC



Rear view of Optimized Magelis Rack PC

## Description

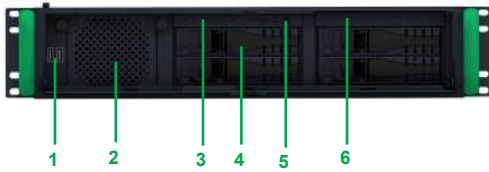
### Magelis HMIR●O Optimized 2U

#### Front view

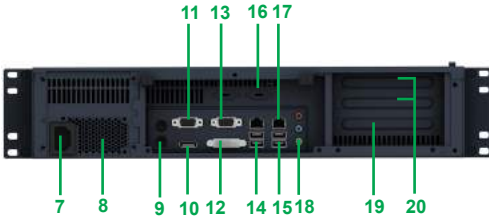
- 1 Power LED
- 2 HDD LED
- 3 Temperature LED
- 4 Fan LED
- 5 2 fans
- 6 SATA3 3.5" internal drive
- 7 2 USB 2.0 ports (USB1 and USB2)
- 8 System reset button
- 9 Alarm reset button
- 10 Power supply switch
- 11 KB/MS connector
- 12 2x 3.5" hot-swap hard disk trays (RAID configuration required for hot-swapping the operating system)
- 13 Slim optical drive bay

#### Rear view

- 14 Power connector
- 15 Power supply unit
- 16 KB/MS connector
- 17 Display port connector
- 18 Serial port connector
- 19 DVI connector
- 20 VGA connector
- 21 2 USB 3.0 ports
- 22 2 USB 3.0 ports
- 23 2 spare Sub-D9 slots
- 24 2 LAN ports
- 25 Audio port
- 26 PCI expansion slot
- 27 2 PCI Express expansion slots (x8/x16)



Front view of Universal Magelis Rack PC



Rear view of Universal Magelis Rack PC

## Description (continued)

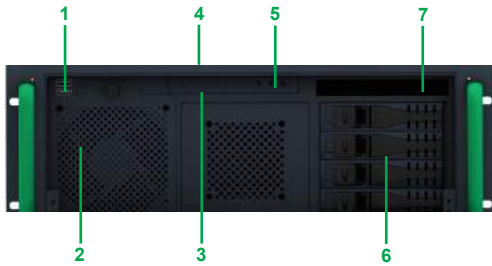
### Magelis HMIRSU Universal 2U

#### Front view

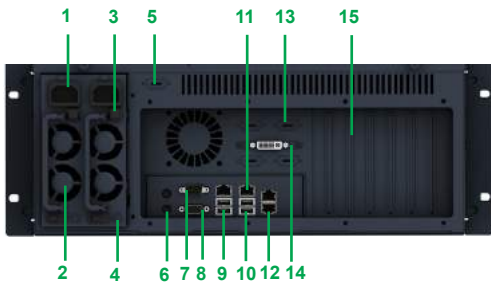
- 1 2 USB 2.0 ports
- 2 Front-accessible fan
- 3 5 LED indicators (power, HDD/temperature/fan)
- 4 2x 3.5" hot-swappable hard disk trays (RAID configuration required for hot-swapping the operating system)
- 5 3 buttons (Alarm reset/System reset/Power)
- 6 Slim optical drive bay

#### Rear view

- 7 Power connector
- 8 Power supply unit
- 9 KB/MS connector
- 10 Display port connector
- 11 Serial port connector
- 12 DVI connector
- 13 VGA connector
- 14 2 USB 3.0 ports
- 15 2 USB 3.0 ports
- 16 2 spare Sub-D9 slots
- 17 2 LAN ports
- 18 Audio port
- 19 PCI expansion slot
- 20 2 PCI Express expansion slots (x8/x16)



Front view of Performance Magelis Rack PC



Rear view of Performance Magelis Rack PC  
(redundant power supply)

## Description (continued)

### Magelis HMIRSP Performance 4U

#### Front view

- 1 2 USB 2.0 ports
- 2 Front-accessible fan
- 3 6 LEDs
- 4 SATA3 3.5" internal drive
- 5 4 switches/buttons
- 6 4x 3.5" hot-swappable hard disk trays(RAID configuration required for hot-swapping the operating system)
- 7 Slim optical drive bay

#### Rear view with redundant power supply

- 1 2 power supply connectors (1)
- 2 2 power supply units (2)
- 3 Button
- 4 LED
- 5 Spare Sub-D9 slot
- 6 KB/MS connector
- 7 Serial port connector
- 8 VGA connector
- 9 2 USB 2.0 ports
- 10 2 USB 3.0 ports
- 11 2 LAN ports
- 12 2 spare LAN ports
- 13 4 spare Sub-D9 slots for additional RS-232 with **HMIYRINSL41** accessory kit
- 14 DVI connector
- 15 Expansion slots (max. 7): 2 PCI Express (x4) and 2 PCI Express (x8/x16) and 3 PCI. By default, audio ports are mounted on 1 slot

(1) Only one power supply connector for Rack PCs with single power supply.

(2) Only one power supply unit for Rack PCs with single power supply.

# Industrial PCs

Magelis iPCs for automation

Magelis HMIR Rack PC

HMIR●O Optimized, HMIRSU Universal, and HMIRSP Performance

PF14010DA



HMIRXOHA3001

Magelis HMIR●O Optimized 2U							
Intel Core G540 (2.5 GHz) processor for HMIRXO/G850 (2.9 GHz) processor for HMIRSO/DDR3 RAM/AC power supply							
PCIe/PCI expansion slots	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb	
2 PCI Express (x8) + 1 PCI	Windows 7 32-bit (WES 7 Premium full version)	–	HDD ≥ 500 GB consumer internal + 2 free trays for hot-swapping	2 GB	HMIRXOHA3W01	12.20/26.90	
2 PCI Express (x8) + 1 PCI	–	–	–	2 GB	HMIRXOHA3001	12.20/26.90	
2 PCI Express (x8) + 1 PCI	Windows 7 64-bit (WES 7 Premium full version)	–	HDD ≥ 500 GB Enterprise 24/7 internal + 2 free trays for hot-swapping	2 GB	HMIRSOHPA3W01	12.20/26.90	

PF140103A



HMIRSUH3A3701

Magelis HMIRSU Universal 2U							
Intel Core i3-2120 processor (3.3 GHz)/DDR3 RAM/AC power supply							
PCIe/PCI expansion slots	Operating system	Software	Storage drives and slots	DDR3 RAM	Reference	Weight kg/lb	
2 PCI Express (x16) + 1 PCI	Windows 7 64-bit (Ultimate MUI)	–	HDD ≥ 500 GB Enterprise 24/7, in first of 4 trays for hot-swapping	4 GB	HMIRSUH3A3701	14.50/31.97	
2 PCI Express (x16) + 1 PCI	Windows 7 64-bit (Ultimate MUI)	Citect SCADA DVD (4)	SSD ≥ 128 GB, in first of 4 trays for hot-swapping	4 GB	HMIRSUS3A3701	14.50/31.97	

5

PF140106A



HMIRSPFXA6701

Magelis HMIRSP Performance 4U							
Intel Xeon™ E3-1225 processor (3.2 GHz)/DDR3 or ECC RAM/AC power supply							
PCIe/PCI expansion slots	Operating system	Software	Storage slots and drives	RAM	Reference	Weight kg/lb	
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	–	HDD ≥ 500 GB Enterprise 24/7 internal + 4 free trays for hot-swapping	4 GB DDR3	HMIRSPHXA6701 (1)	20.80/45.86	
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	EcoStruxure Hybrid DCS leaflet	HDD ≥ 500 GB Enterprise 24/7 internal + 4 free trays for hot-swapping	16 GB DDR3	HMIRSPHXA67P1 (1)	20.80/45.86	
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	Citect SCADA DVD (4)	SSD ≥ 128 GB internal + 4 free trays for hot-swapping	4 GB DDR3	HMIRSPFXA6701 (1)	20.80/45.86	
4 PCI Express (x16) + 3 PCI (3)	Windows 7 64-bit (Ultimate MUI)	Citect SCADA DVD (4)	SSD ≥ 128 GB internal + 4 free trays for hot-swapping	4 GB DDR3	HMIRSPFXR6702 (2)	20.80/45.86	
4 PCI Express (x16) + 3 PCI (3)	Windows Server 2008 R2 standard including 5 clients	–	2 HDD ≥ 500 GB Enterprise 24/7 in 2 hot-swap trays + 2 free trays for hot-swapping + 1 free internal SATA slot	8 GB ECC	HMIRSPSXR6S01 (2)	24.20/53.35	
	Windows Server 2012 R2 standard including 5 clients	EcoStruxure Hybrid DCS leaflet			HMIRSPSXR6T01 (2)	24.20/53.35	

(1) Single AC power supply, 500 W.

(2) Redundant AC power supply, 500 W.

(3) By default, audio ports are mounted on 1 PCI slot.

(4) Citect SCADA DVD is only for installation. Software activation license to be ordered separately.

# Industrial PCs

## Magelis iPCs for automation

### Magelis HMIR Rack PC

#### Separate components

Separate components						
Description	Details	Compatible with Magelis HMIR Rack PC			Reference	Weight kg/lb
		HMIR●O Optimized	HMIRSU Universal	HMIRSP Performance		
<b>Storage disks, expansion RAM, peripheral equipment</b>						
HDD with mounting screws	500 GB (Enterprise 24/7), blank	All models			HMIYHDD500R1	–
	1 TB (Enterprise 24/7), blank	All models			HMIYHDD01TR2	–
SSD with mounting screws	128 GB MLC (5-year warranty and 2 million hours MTBF)	All models			HMIYSSDS080S1	–
	256 GB MLC (5-year warranty and 2 million hours MTBF)	All models			HMIYSSDS240S1	–
Power cable China	China type power cable	All models			HMIYRCABPWRCN1	–
4 Serial Lines kit for Rack 2U	Optional kit with 4 cables for motherboard connection, 2 PCI brackets, and 2 communication ports	All models		–	HMIYRINSL21	–
4 Serial Lines kit for Rack 4U	Optional kit with 1 PCB for motherboard connection, screws, and 2 × 2 m cables and 2 communication ports for spare housing	–		All models	HMIYRINSL41	–
Expansion RAM 4 GB for HMIR	4 GB DDR3	All models except	HMIRSPSXR6S01		HMIYPRAM3040R1	–
Expansion RAM 8 GB for HMIR	8 GB DDR3	All models except	HMIRSPSXR6S01		HMIYPRAM3080R1	–
Expansion RAM 4 GB for Rack server	4 GB ECC	–		HMIRSPSXR6S01	HMIYPRAME040R1	–
Expansion RAM 8 GB for Rack server	8 GB ECC	–		HMIRSPSXR6S01	HMIYPRAME080R1	–
<b>Maintenance kit</b>						
Maintenance kit for Rack PC 2U	USB cable, fans, holders, filters, motherboard screws, HDD screws, SATA cables, and door keys	All models		–	HMIYRMKT2O1	–
Maintenance kit for Rack PC 2U		–	All models	–	HMIYRMKT2U1	–
Maintenance kit for Rack PC 4U		–		All models	HMIYRMKT4P1	–
<b>Power supply</b>						
300 W power supply for Rack PC 2U	Spare single 110-240 V ~ power supply	All models		–	HMIYRMAC21	–
500 W power supply for Rack PC 4U		–		HMIRSPHXA6701 HMIRSPHXA67P1 HMIRSPFXA6701	HMIYRMAC41	–
500 W redundant power supply for Rack PC 4U	Spare redundant 110-240 V ~ power supply	–		HMIRSPFXR6702 HMIRSPSXR6S01	HMIYRMRC41	–
<b>Software</b>						
Vijeo Designer Run Time license for 1 workstation	Converts the 21-day trial version of Vijeo Designer Run Time Demo to an unlimited license	All models			VJDSNRTMPC	–
Intelligent Data Service license extension for Vijeo Designer RT for 1 workstation	Used to track the process variables and all operator actions, and offers visibility of the key process values	All models (requires storage capacity ≥ 4 GB)			VJDSNTRCKV60M	–
EcoStruxure Operator Terminal Expert Run Time license for 1 workstation	Converts the 21-day trial version of EcoStruxure Operator Terminal Expert Run Time Demo to an unlimited license	All models			HMIRTWCZLSPAZZ (Digital) HMIRTWCZLSPMZZ (Paper)	–



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## Magelis™ HMIDID iDisplay screens

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- Separate parts ..... page 6/5
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# Industrial PCs

## Magelis HMIDID iDisplay screens

### 12" and 15" flat screens

<b>Type of display</b>		<b>Magelis HMIDID iDisplay flat screen</b>
<b>Model</b>		<b>12" touch screen</b>
		
<b>Screen</b>	Type	TFT HD LCD color multi-touch resistive screen
	Size	12.1"
	Resolution	XGA, 1024 x 768 pixels, 16 million colors
	Degree of protection	IP66f, IP67f, and UL50E NEMA 4X/13 for the front panel when installed properly in an enclosure
	Brightness	≥ 400 cd/m <sup>2</sup> adjustable, 100 level dimming with brightness sensor
	Backlight	50,000 hours
<b>Interface</b>	On the front panel	1x USB 2.0 (Type A)
	Other	<input type="checkbox"/> 1x DVI-D video (DVI-D 24 pin socket) <input type="checkbox"/> 1x USB 2.0 (Type B) from touch screen to PC <input type="checkbox"/> Supplied with 5 m/16.4 ft DVI-D and USB cables
<b>Standards and certifications</b>		CE Europe, RCM Australia, UL 508 and CSA C22.2 No142, Industrial Control Equipment, ANSI/ISA 12.12.01 and CSA C22.2 No213 Class I, Division 2 Hazardous Locations, IECEx/ATEX for use in zones 2/22, EAC (Russia, Belarus, Kazakhstan), KC (Korea Certification)
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS
<b>Supply voltage</b>		12...24 V ~
<b>Power consumption</b>		17 W max.
<b>Mounting</b>		Panel on front enclosure or VESA 100 x 100 on the rear of iDisplay
<b>Dimensions</b>	Overall dimensions (W x H x D)	315 x 241 x 67 mm/12.40 x 9.50 x 2.64 in.
	Cut-out (W x H)	301.5 x 227.5 mm/11.87 x 8.96 in.
<b>Temperature</b>	During operation	0...60 °C/32...140 °F, according to EN 61131-2 and UL
	During storage	-20...60 °C/-4...140 °F
<b>Shock resistance</b>		IEC/EN 61131-2 compliant: <input checked="" type="checkbox"/> 147 m/s <sup>2</sup> <input checked="" type="checkbox"/> X, Y, Z directions tested 3 times
<b>Vibration resistance</b>		Conforming to JIS B 3501 and IEC 61131-2 standards: <input checked="" type="checkbox"/> 5...9 Hz, 3.5 mm fixed amplitude <input checked="" type="checkbox"/> 9...150 Hz: constant acceleration of 1 g (9.8 m/s <sup>2</sup> ) <input checked="" type="checkbox"/> X, Y, Z directions tested 10 times (100 minutes)
<b>References</b>		<b>HMIDID64DTD1</b>
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(1) For more information, please refer to Magelis Display Adapter on page 4/28.

<b>Magelis HMIDID iDisplay flat screen</b>		<b>Alternate Display option with Magelis HMIDAD Display adapter(1)</b>
<b>15" touch screen</b>		
 		
<b>Screen</b>	Type	TFT HD LCD color multi-touch resistive screen
	Size	15"
	Resolution	XGA, 1024 x 768 pixels, 16 million colors
	Degree of protection	IP66f, IP67f, and UL50E NEMA 4X/13 for the front panel when installed properly in an enclosure
	Brightness	≥ 400 cd/m <sup>2</sup> adjustable, 100 level dimming with brightness sensor
	Backlight	50,000 hours
<b>Interface</b>	On the front panel	1x USB 2.0 (Type A)
	Other	<input type="checkbox"/> 1x DVI-D video (DVI-D 24 pin socket) <input type="checkbox"/> 1x USB 2.0 (Type B) from touch screen to PC <input type="checkbox"/> Supplied with 5 m/16.4 ft DVI-D and USB cables
<b>Standards and certifications</b>		CE Europe, RCM Australia, UL 508 and CSA C22.2 No142, Industrial Control Equipment, ANSI/ISA 12.12.01 and CSA C22.2 No213 Class I, Division 2 Hazardous Locations, IECEx/ATEX for use in zones 2/22, EAC (Russia, Belarus, Kazakhstan), KC (Korea Certification)
<b>Marine certifications</b>		BV, CCS, DNV, GL, LR, RINA, ABS
<b>Supply voltage</b>		12...24 V ~
<b>Power consumption</b>		21 W max.
<b>Mounting</b>		Panel on front enclosure or VESA 100 X 100 on the rear of iDisplay
<b>Dimensions</b>	Overall dimensions (W x H x D)	397 x 296 x 67 mm/15.63 x 11.65 x 2.64 in.
	Cut-out (W x H)	383.5 x 282.5 mm/15.10 x 11.12 in.
<b>Temperature</b>	During operation	0...60 °C/32...140 °F, according to EN 61131-2 and UL
	During storage	-20...60 °C/-4...140 °F
<b>Shock resistance</b>		IEC/EN 61131-2 compliant: <input checked="" type="checkbox"/> 147 m/s <sup>2</sup> <input checked="" type="checkbox"/> X, Y, Z directions tested 3 times
<b>Vibration resistance</b>		Conforming to JIS B 3501 and IEC 61131-2 standards: <input checked="" type="checkbox"/> 5...9 Hz, 3.5 mm fixed amplitude <input checked="" type="checkbox"/> 9...150 Hz: constant acceleration of 1 g (9.8 m/s <sup>2</sup> ) <input checked="" type="checkbox"/> X, Y, Z directions tested 10 times (100 minutes)
<b>References</b>		<b>HMIDID73DTD1</b>
<b>Page</b>		6/5
		HMIDM Modular Display with HMIDAD Display Adapter, making remote monitors as: <input type="checkbox"/> Local display (maximum distance of 5 m/16.4 ft) <input type="checkbox"/> Remote display (up to 4 daisy chain displays with same screen definition, and maximum distance of 100 m/328 ft for 1st Display to 400 m/1312 ft for 4th Display)
		According to Magelis HMIDM Modular Display mounted on front (1)
		<input type="checkbox"/> 1x Display Port video <input type="checkbox"/> 1x USB 2.0 (Type B) from touch screen to PC
<b>Standards and certifications</b>		CE, cULus, cULus CSA 22-2 No 142, cULus HazLoc Class I Division 2 ANSI/ISA 12-12-01, cULus HazLoc Class I Division 2 CSA 22-2 No 213, ATEX and IECEx Hazardous Locations 3GD Zone 2/22, FCC (part 15 EMC Class A), CCC
<b>Marine certifications</b>		-
<b>Supply voltage</b>		24 V ~ or 100...240 V ~ with external power adapter
<b>Power consumption</b>		According to Magelis HMIDM Modular Display mounted on the front (1)
<b>Mounting</b>		Panel on front enclosure or VESA 100 X 100 on the rear of the Display Adapter
<b>Dimensions</b>		According to Magelis HMIDM Modular Display mounted on front (1)
<b>Temperature</b>		0...55 °C/32...131 °F
<b>Shock resistance</b>		-
<b>Vibration resistance</b>		Random vibration 5...500 Hz: 2 G
<b>References</b>		<b>HMIDADP11</b>
<b>Page</b>		4/31

# Industrial PCs

## Magelis HMIDID *i*Display screens

### 12" and 15" flat screens



HMIDID73DTD1

### Presentation

Magelis HMIDID *i*Display are monitors with industrial flat screens designed for use with PCs. The 4:3 auto-scaler format screens of *i*Display adapt to screen definition. Magelis HMIDID enhances user experience and efficiency by multi-touch support like a smartphone. In addition to panel mounting, Magelis *i*Display also offers VESA 100x100 mounting on the rear side of the product.

Two screen sizes are available: 12" and 15" to suit various requirements.

Magelis HMIDID screens are certified for PLC product standards and designed for use in severe industrial environments (up to 60 °C, with LED backlight (50,000-hr life) and waterproof front IP67f). They support excellent screen sizes or dimension ratios for easy installation on any machine or in any equipment.

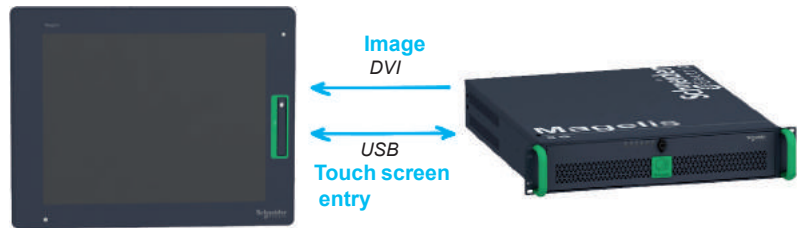
These screens are easily connected to the PC via:

- Standard DVI digital video with auto-scaler
- USB with touch screen drivers (supports up to Windows® 8.1)

Magelis *i*Display screens have the same cut-out dimensions as Magelis HMI Panels, thus making it easy to upgrade installations.

### Architecture

Magelis *i*Display screens are compatible with Magelis Rack PCs (1).

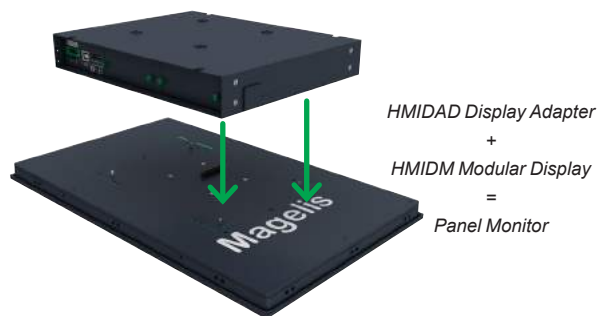


Magelis *i*Display

Magelis Rack PC

### Alternate Display option with Magelis HMIDAD Display Adapter

As an alternative option for Magelis HMIDID *i*Display screens, the Magelis HMIDAD Display Adapter can be used to remotely connect a Magelis Modular Display to a Magelis *i*PC or a third party PC, in the following configurations:



- Local display of up to 1 display (maximum distance of 5 m/16.4 ft). The Magelis *i*PC or a third party PC, is connected to HMIDADP11 Display Adapter by 1x USB cable for touch screen and 1x Display Port cable for video.
- Remote display of up to 4 displays with the same screen definition (maximum distance of 100 m/328 ft. between each device). Magelis *i*PC with mini PCIe interface is connected to Display adapters through RJ45 cables. In this configuration, each remote display includes an HMIDM Modular Display + an HMIDADP11 Display Adapter + an HMIYDARE11 Receiver module + an HMIYDATR11 Transmitter module (not required for the last display in the chain).

For more information on Magelis HMIDAD Display Adapter, please refer pages 4/28 to 4/31.

(1) For more information, please refer pages 5/4 to 5/11.

# Industrial PCs

## Magelis HMIDID iDisplay screens

### 12" and 15" flat screens



HMIDID64DTD1

References					
Description	Screen	Interface	Supply voltage	Reference	Weight kg/lb
Flat screen for flush mounting, IP66f, IP67f front panel (2)	12", XGA resistive (1024 x 768 pixels)	Multi-touch	12...24 V $\overline{\text{DC}}$	HMIDID64DTD1 (1)	3.9/8.6
	15", XGA resistive (1024 x 768 pixels)	Multi-touch	12...24 V $\overline{\text{DC}}$	HMIDID73DTD1 (1)	5.2/11.5

Separate parts			
Description	Sold in lots of	Reference	Weight kg/lb
Extra-long cable (10 m/32.81 ft) for connection with Magelis Box PC and Magelis Panel PC industrial PCs	–	HMIYCABDVI1011	–
USB clamp Type B (1 port) for Magelis iDisplay	5	HMIYDUSBCA111	–
iDisplay Adaptation plate from 19" to 15"	–	HMIYAD1915D1	–

Substitution			
Legacy Magelis iDisplays		Replaced by Magelis displays	
Description	Reference	Description	Reference
<b>Magelis iDisplay 15"</b>		<b>Magelis iDisplay 15" Multi-touch</b>	
15", XGA	HMIDID7DT0	15" XGA resistive	HMIDID73DTD1
<b>Magelis iDisplay 19"</b>		<b>Magelis displays</b>	
19"	MPCYT90NAN00N	15" iDisplay monitor multi-Touch + Adaptation plate	HMIDID73DTD1 + HMIYAD1915D1
		19" W Modular display + Display Adapter with display port and DC	HMIDM9521 + HMIDADP11

(1) Supplied with 5 m/16.4 ft DVI cable.

(2) Magelis iDisplay offers VESA 100x100 mounting on the rear of the product.



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# Magelis Industrial PC, Edge Box and Display

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