

# Rugged and open to your applications

## Magelis industrial PCs

Opti PC, Smart, Smart+, Compact IPC,  
Smart BOX, Compact BOX, Flex PC BOX, and iDisplay



Vijeo Citect



Intelligent  
Data Service



Vijeo Designer



Windows XP™

CF

Compact  
Flash

Flash  
disk

Flash  
disk

HDD

Hard  
disk

**Schneider**  
Electric

Magelis iPC is used as part of an automation solution running under Windows.

Magelis is a complete range of "all-in-one" (with touch screen) and "BOX" (without screen) industrial PCs. To ensure flexibility, Magelis touch screens are the same size for both iPC solutions and for XBTGT operator terminals.

Magelis iPCs offer unbeatable value and is suitable for all types of specification, from the simplest (IP65 screen only, PC for general purposes) to the most demanding (PC without fan, Flash disk without rotating part, redundant hard disks or backup batteries).

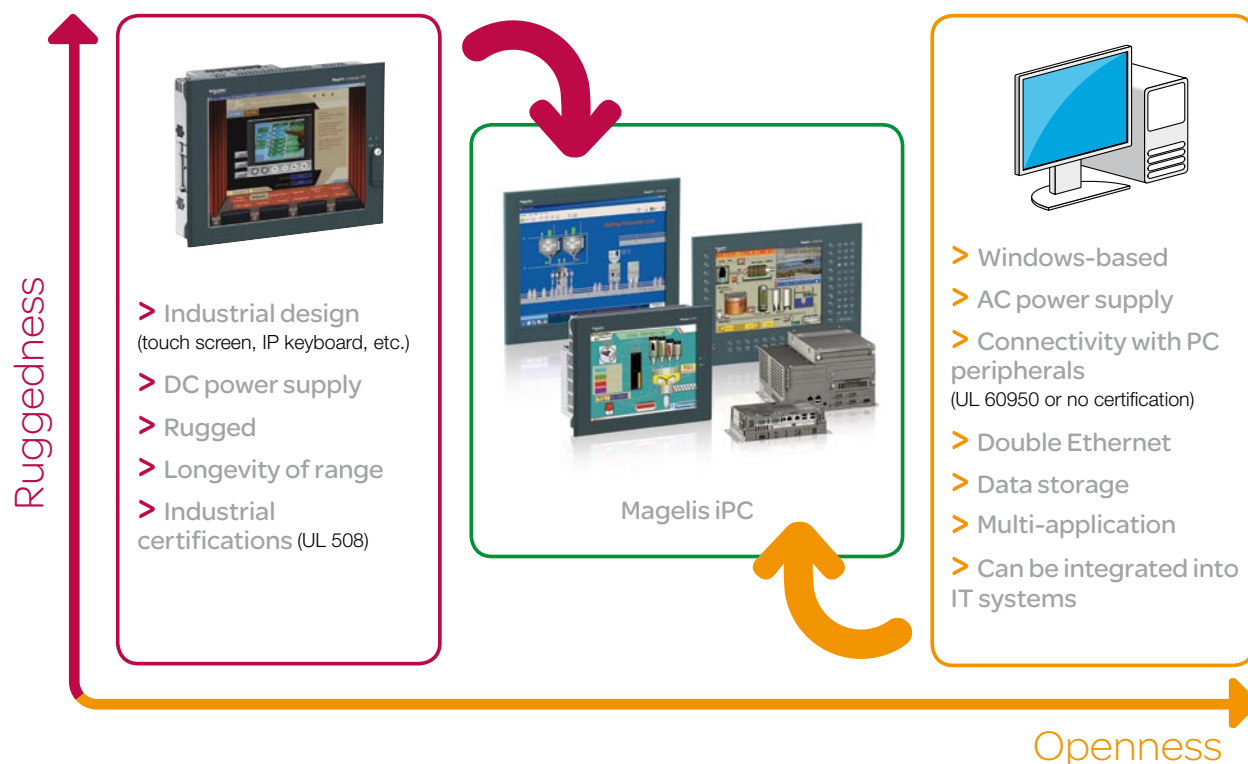
Magelis iPCs are compatible with Windows-based applications by design and offer combined software options such as human machine interfaces (HMIs), traceability, and SCADA supervisor.

# Magelis iPC

## Magelis IPC, HMI terminal continuity under Windows

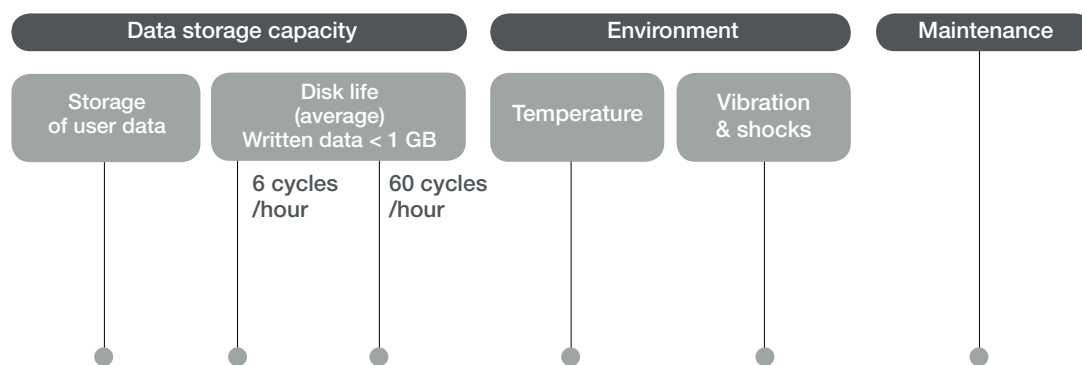
Magelis iPCs have to be as rugged as operator terminals based on realtime operating systems. Some of the industrial PCs in the range have similar certifications (UL 508 for automation products, UL and ATEX for explosive zones, Marine). With their sealed touch screens, keyboard and pointer options, compact dimensions, and choice of DC or AC power supply, Magelis iPCs can easily be integrated into control systems. The longevity of the range is assured; in spite of rapid technological advances, there is no risk of choices already made being undermined.

Magelis iPCs offer all of the openness associated with Windows in terms of software applications and connectivity. They have a very high storage capacity and double Ethernet ports, one of which supports very high speeds. They provide a window on the IT world.



# Define your user environment

Magelis iPCs are able to meet the requirements of the various types of environment associated with automation solutions. The table below will help you identify your own application type.



General purpose					
< 160 GB	5 years	2 years	Normally > 5°C & < 50°C Less than 25% of time between > 35°C & < 50°C	Normally < 1G	Fan filter cleaning Disk replacement



Heavy duty					
< 15 GB	10 years	10 years	Normally > 0°C & < 50°C	Normally < 2G	Fan filter cleaning



Maintenance-free					
< 15 GB	10 years	10 years	Normally > 0°C & < 50°C	Normally < 2G	None
No user data	No writing	No writing			



# Magelis Opti PC

"All-in-one" PC

Maintenance-free



**New, maintenance-free industrial PCs at an unbeatable price, boasting UL 60950 certification for IT equipment**

## Maintenance-free PC at an unbeatable price

Magelis Opti PC is a range of maintenance-free PCs with no rotating parts (no hard disk or fan). Offering unbeatable value, it is based on Windows XP Embedded.

The high-definition color TFT LCD touch screens are available in 8.4" and 15" versions and have an IP54 front panel. With an adapter and optional cable, they support both AC and DC power supplies. Magelis Opti PC is certified to UL/cUL 60950 as IT equipment.

## Optimized functionality

Magelis Opti PC has an Intel® Celeron M 1 GHz processor with 1 GB of SDRAM and offers a number of standard interfaces (e.g. Ethernet port, USB, serial ports, VGA).

## Embedded software

Magelis Opti PC comes with Windows XP Embedded SP3, Internet Explorer 6.0, Adobe Flash Player, Adobe PDF Reader, Office Viewer, and a 4 GB SLC Compact Flash card. The range supports Vijeo Designer HMI applications (demonstration version can be expanded to unlimited version).

The system supports 14 languages for multi-user applications.



# Magelis Smart

Universal Windows terminal

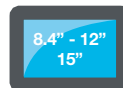
Maintenance-free



Vijeo Designer



Vijeo Citect  
Web client



Touch  
screens

## Maintenance-free and rugged

Magelis Smart is maintenance-free and extremely rugged. The range contains no rotating parts (no hard disk or fan) and offers IP65 protection. The touch screens (8.4", 12", and 15") are the same size as the rest of the Magelis range (iPC and XBTGT operator terminals). The operating system and applications are located on a write-protected (by default) Compact Flash to protect against any kind of damage. The range has been certified to the most demanding standards (UL 508 for automation equipment, UL and ATEX for explosive zones, Marine).

## The power of a PC with Windows

Magelis Smart PCs have Intel Celeron M processors, 2 Ethernet ports (one of which supports very high speeds), as many as 5 USB ports on the front panel, and up to 2 serial links.

## Embedded software

Based on Windows XP Embedded, the embedded software consists of readers for office applications, multimedia and email, and a Web browser. This software is designed to support .net applications, the Vijeo Designer HMI (demonstration version can be expanded to unlimited version), and the Vijeo Citect SCADA supervisor's Web clients.



# Magelis Smart+

## Maintenance-free Windows XP PC

Maintenance-free



Flash disk 15GB



Vijeo Designer



Vijeo Citect



15" Touch screens



**Innovative industrial PCs, which, like operator terminals, contain no rotating parts, but offer all the openness associated with Windows XP Pro**

### The first maintenance-free industrial PC with Windows XP Pro

Magelis Smart+ is maintenance-free and contains no rotating parts (no hard disk or fan). It also offers all of the openness associated with Windows XP Pro. The IP65 touch screen shares the same 15" dimensions as the rest of the Magelis range. With its Intel Celeron M 1 GHz processor, 1 GB of RAM, and 2 Ethernet ports, Magelis Smart+ offers great performance and, crucially, features a Flash disk with Windows XP Pro.

As rugged as an operator terminal, the range has been certified to the most demanding standards (UL 508 for automation equipment, UL and ATEX for explosive zones, Marine).

Smart+ supports Vijeo Designer applications (demonstration version can be expanded to unlimited version) and, crucially, is the first maintenance-free Magelis iPC to fully support the Vijeo Citect SCADA supervisor.



Windows XP™ Professional

# Magelis Compact iPC

## Universal industrial PC

General purpose

Heavy duty



HDD 80/160/250 GB\* General purpose

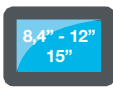
Flash disk 15GB Heavy duty



Vijeo Designer



Vijeo Citect



8.4" - 12" - 15" Touch screens

Magelis Compact iPCs are universal industrial PCs with 1 PCI slot and an optional DVD reader. Their slim build, however, ensures that they can be easily integrated into automation equipment. They can accommodate hard disks with a large capacity or Flash disks with no rotating parts for more demanding applications. They offer IP65 protection and their touch screens (8.4", 12", and 15") are the same size as the rest of the Magelis range. Their Intel Celeron M processors (Pentium M) are powerful and they have 2 Ethernet ports, one of which supports very high speeds. They owe their considerable openness to Windows XP Pro. They have UL 508 certification for automation equipment and UL certification for explosive zones.

Magelis Compact iPCs support Vijeo Designer applications (demonstration version can be expanded to unlimited version) and can be used in tandem with the Vijeo Citect SCADA supervisor.



Windows XP™ Professional

\* 250GB coming soon



# Magelis Smart BOX & Compact PC BOX

Maintenance-free

General purpose

## Industrial PC BOX versions



CF

2 GB

Maintenance-free



Vijeo Designer



Vijeo Citect Web client

Magelis Smart BOX and Compact BOX are like the Smart and Compact iPCs but have no screen. They can be used with Magelis iDisplay or any other remote screen. They have an Intel Celeron M processor and 2 Ethernet ports, one of which supports very high speeds.

### Maintenance-free Smart BOX

Magelis Smart BOX contains no rotating parts (no hard disk or fan) and is extremely rugged. The operating system and applications are located on a write-protected (by default) Compact Flash to protect against any kind of damage. Magelis Smart BOX has been certified to the most demanding standards (UL 508 for automation equipment, ATEX for explosive zones, Marine).

Based on Windows XP Embedded, the Smart BOX features readers for office applications, multimedia and email, and a Web browser. It is designed to support .net applications, Vijeo Designer (demonstration version can be expanded to unlimited version), and the Vijeo Citect SCADA supervisor's Web clients.



HDD

80 GB

General purpose



Vijeo Designer



Vijeo Citect

### Universal Compact BOX

Compact BOX contains a hard disk and owes its considerable openness to Windows XP Pro. It has UL 508 certification for automation equipment.

Magelis Compact supports Vijeo Designer applications (demonstration version can be expanded to unlimited version) and can be used in tandem with the Vijeo Citect SCADA supervisor.

# Magelis iDisplay

## Industrial screens for BOX



Magelis iDisplay is a range of industrial screens which can be connected to PCs. The screen size has been optimized for easy integration into automation applications. Screens are available in 15" touch screen, 15" touch screen + keyboard + pointer, and 19" touch screen versions. The sizes are the same as the rest of the Magelis range. They offer IP65 protection and have a USB port on the front panel. They are connected to PCs using 2 standard cables: VGA (analog) or DVI (digital) for video and USB or RS 232 for touch screen/keyboard/pointer.

Magelis iDisplay screens can be connected to Magelis BOX (Smart BOX, Compact BOX, and Flex PC BOX) or any other PC.



# Magelis Flex PC BOX

## High-performance combinations

General  
purpose

Heavy  
duty



2 PCI Slots

4 PCI Slots

**HDD** 160 GB / 250 GB\* General purpose

\* 250 GB HDD coming soon

**Flash disk** 15 GB Heavy duty



Vijeo Designer



Vijeo Citect

2 GB of RAM

### 4 Front Panels



19" touch screen



15" touch screen + keyboard



15" touch screen



12" touch screen + keyboard



Windows XP™  
Professional

Magelis Flex PC BOX is a range of high-performance combination industrial PCs without screens. Running under Windows XP Pro and certified to the most demanding standards (UL 508 for automation equipment, UL and ATEX for explosive zones), the PCs come with the following features:

- > Intel Celeron M 1.86 GHz or Core Duo 2 GHz processor
- > 2 or 4 PCI slots
- > RAM can be expanded up to 4 GB
- > High-capacity hard disks or Flash disk
- > DVD reader or reader/writer

Magelis Flex PC BOX supports Vijeo Designer applications (demonstration version can be expanded to unlimited version) and can be used in tandem with the Vijeo Citect SCADA supervisor.

## Magelis Flex PC BOX options

### Front panel screen options

"Front panels" are optional screens for mounting on the Flex PC BOX. They are available in 12" or 15" touch screen + keyboard + pointer, 15" touch screen, and 19" touch screen versions. The sizes are the same as the rest of the Magelis range. They offer IP65 protection and have a USB port on the front panel.

### Remote screen options

Magelis Flex PC BOX can be connected to Magelis iDisplay or any other type of screen. These industrial PCs feature a DVI port (digital) for connection to up to 2 screens with excellent picture quality.

## High-availability option

Magelis Flex PC BOX comes with a monitoring and alert system as standard (hard disk, temperature, etc.) and features Flash disks with no rotating parts for more demanding applications. 2 additional options are available to meet the requirements of high-availability applications:

- > RAID redundant hard disk for applications requiring both high storage capacity and high levels of availability
- > Integrated backup battery with management of PC power supply

## Extra-wide PCI cards option

The 4 PCI slots on Magelis Flex PC BOX support the insertion of 2 cards up to 255 mm wide. An expansion kit can be used to increase this width to 340 mm.



Flex PC BOX H  
with 340 mm PCI  
expansion kit

# Software used with Magelis iPC



Vijeo Designer

## Human machine interface: Vijeo Designer

Magelis iPCs have a "run time" feature in order to support Vijeo Designer HMI applications. The standard demonstration version (which can only be used for 21 days) can be upgraded to allow unlimited use if a license code is purchased, without having to install any additional software.



Intelligent Data Service

## Traceability and management: Intelligent Data Service

Intelligent Data Service is a Vijeo Designer option supported by Magelis iPCs. It provides traceability for processes and operator actions, as well as ensuring data integrity, in accordance with the American standard FDA-21CFR Part 11. It also acts as a kind of control panel for processes, by archiving variables and representing them graphically.



Vijeo Citect

## SCADA supervisor: Vijeo Citect

### Vijeo Citect Web client on Smart and Smart BOX

Based on Compact Flash, Smart and Smart BOX support Vijeo Citect Web clients. Web client licenses are managed at Vijeo Citect server level.

### Vijeo Citect Lite and client/server on Smart+, Compact iPC, and Flex PC BOX

The combined Magelis iPC and Vijeo Citect software offers facilitate hardware and software implementation at the best possible price. They include the software DVD and documentation, the USB memory stick with its registered code, and support for one year. As with any Vijeo Citect license, higher-level licenses and updates are available at any time (via the stick).

Given that SCADA supervisor configurations have considerable read/write disk requirements, it is advisable to keep at least 50% of the disk available and use the Magelis iPC as a client. The server should then be installed on a dedicated server PC in a room with a protected environment.

Smart+ is the first maintenance-free Magelis iPC and combines all the options associated with the SCADA Vijeo Citect supervisor. With the ruggedness of an operator terminal and certified to the most demanding standards, this combination is able to meet the requirements of SCADA supervisor applications in the harshest of environments.

Leaflet 8 p



Magelis iPC offers a **wide selection of** maintenance-free and high-availability PCs



Magelis iPC ensures operator **terminal continuity** under Windows



Magelis iPC is designed by Schneider Electric, **a leading provider of automation solutions:**

- > Global presence
- > Certifications
- > Longevity of range

 **Make the most of your energy**

**Schneider Electric Industries SAS**

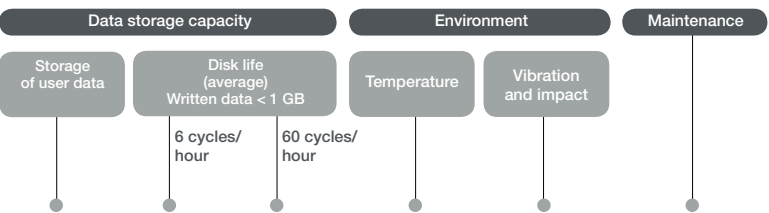
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Due to possible changes in standards and equipment, the features described in this document in the form of text and images are subject to confirmation by Schneider Electric.  
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# Selection Guide Magelis iPC

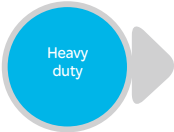
Define your iPC environment



General purpose					
< 160 GB	5 years	2 years	Typically > 5°C and < 50°C Less than 25% of time between > 35°C and < 50°C	Normally < 1G	Fan filter cleaning Disk replacement



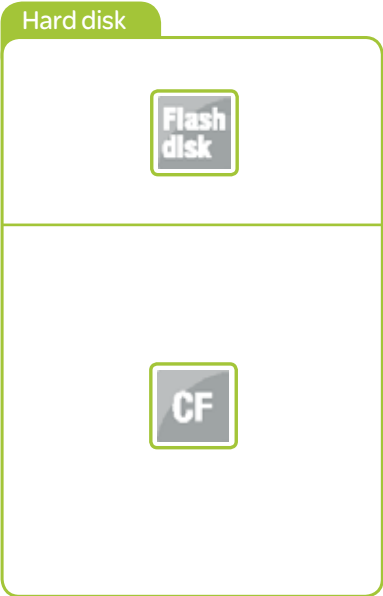
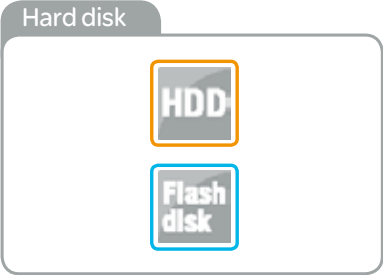
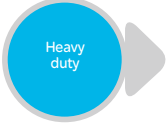
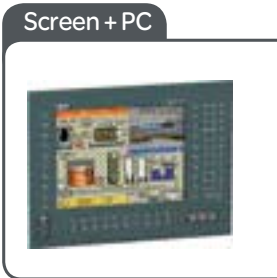
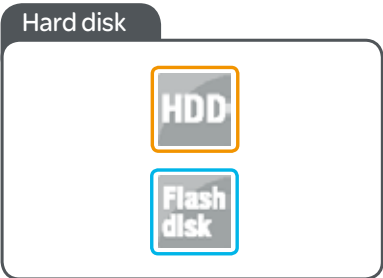
Heavy duty					
< 15 GB	10 years	10 years	Normally > 0°C and < 50°C	Normally < 2G	Fan filter cleaning



Maintenance-free					
< 15 GB	10 years	10 years	Normally > 0°C and < 50°C	Normally < 2G	None
No user data	No writing	No writing			



# Select your configuration



\* Without fan

# Magelis iPC

## Front Panel + Flex BOX

12", 15", 19"  
2 to 4 PCI

### CPU



**Flex BOX**  
2 to 4 PCI

## Compact

8.4", 12"  
& 15" Touch, 1 PCI

### CPU



**Compact BOX**  
1 PCI

## Smart + 15" Touch

**Smart**  
8.4", 12"  
& 15" Touch

### CPU\*



**Smart BOX**

## Opti PC

8.4" & 15" Touch

## Combined software



Vijeo Citect



Intelligent  
Data Service



Vijeo Designer



# Magelis Opti PC, Smart, Smart+, and



Opti PC 8.4"

Opti PC 15"

Smart 8.4"

Smart 12"

Pre-installed software		Windows XP Embedded, Internet Explorer, Office and Acrobat Reader, .NET, Vijeo Designer Runtime			
Touch screen		8.4" LCD TFT	15" LCD TFT	8.4" LCD TFT	12" LCD TFT
Resolution		SVGA 800 x 600	XGA 1024 x 768	SVGA 800 x 600	
Port on front panel		—			1 x USB
Protection for front panel		IP54		IP65	
Processor		Celeron M @ 1 GHz		Celeron M @ 600 MHz	Celeron M @ 1 GHz
RAM		1024 MB		512 MB → 1024 MB	
Reader/Writer		—			
Storage		CF 4 GB		CF 2 GB → 4 GB	
Expansion		—		—	1 x PCMCIA 1 x type II card
Ethernet ports		1 (10/100)		2 (10/100/1G + 10/100)	
I/O ports		3 x USB, 2 x RS 232, 1 x eSATA, 1 x VGA		4 x USB, 2 x RS 232	
Certifications		UL 60950		UL 508, CSA 142, Marine DNV <sup>(2)</sup>	UL 508, CSA 142
Dimensions		254 x 188 x 69	376 x 292 x 60	230 x 177 x 65	313 x 239 x 60
iPC Compact Flash	AC	HMI POC4 AE01	HMI POC7 AE01	MPCST11NAJ00T	MPCST21NAJ20T
	DC			MPCST11NDJ00T	MPCST21NDJ20T
iPC hard disk	AC				
	DC				
iPC Flash disk	AC				
	DC				
Vijeo Citect Lite 1200 I/O	AC				
Vijeo Citect Full 500 I/O	AC				

(1) License VJDSNRTMPC for Vijeo Designer Run Time unlimited to be ordered separately

(2) UL 1604 and Marine, DC only

(3) 250 GB coming soon

# Compact iPC



Smart 15"		Smart+ 15"		Compact iPC 8.4"	Compact iPC 12"	Compact iPC 15"	
Demo <sup>(1)</sup> , Vijeo Citect Web Client				Windows XP PRO, Vijeo Designer Run Time Demo <sup>(1)</sup>			
15" LCD TFT	15" LCD TFT	8.4" LCD TFT	12" LCD TFT	15" LCD TFT	15" LCD TFT		
SGA 1024 x 768		SVGA 800 x 600	XGA 1024 x 768				
		—	1 x USB				
		Celeron M @ 1 GHz	Celeron M @ 1.5 GHz	Pentium M @ 1.6 GHz			
1024 MB		512 MB → 1024 MB		512 MB → 2 GB	1.5 MB → 2 GB		
				DVD reader			
CF 4 GB	Flash disk 15 GB	Hard disk ≥ 80 GB	Hard disk ≥ 160 GB <sup>(2)</sup> or Flash disk 15 GB	Hard disk ≥ 80 GB or Flash disk 15 GB			
1 x PCMCIA 1 x type III card or 2 x type I cards		—	1 x PCMCIA 1 x type II card	1 x PCMCIA 1 x type III card or 2 x type I cards			
		2 (10/100/1G + 10/100)					
		4 x USB, 2 x RS 232	4 x USB, 1 x RS 232	4 x USB, 4 x RS 232			
UL 508, cUL, UL 1604 (Haz. Loc.), Marine DNV <sup>(2)</sup>		UL 508, CSA	UL 508, CSA, UL 1604 (Haz. Loc. Class 1, Div. 2)				
395 x 294 x 65		230 x 177 x 120	313 x 239 x 100	394 x 294 x100			
HMI PCS7 AE03							
HMI PCS7 DE03		—					
		MPCKT12NAX00N	MPCKT22NAX20N	MPCKT55NAX20N	MPCKT55NAX20N		
				MPCKT55NDX20N	MPCKT55NDX20N		
	HMI PSF7 AP03	MPCKT55MAX20N		MPCKT55MAX20N			
	HMI PSF7 DP03						
	HMI PSF7 APL3			MPCKT55MAX20L			
	HMI PSF7 APF3			MPCKT55MAX20V			

# Magelis Smart BOX, Magelis Compact PC BOX



Smart BOX

Compact PC BOX

Pre-installed software	Windows XP PRO, Vijeo Designer Run Time Demo <sup>(1)</sup>	
Processor	Celeron M@600GHz	Celeron M@1GHz
RAM	256 MB → 1024 MB	512 Mo → 1024 MB
Storage	CF 2 GB → 4 GB	Disque Dur ≥ 80 GB
Expansion		1 x PCI
Video, Ethernet, I/O ports	1 x RGB, 2 (10/100/1G + 10/100), 4 x USB, 2 x RS232	
Certifications	UL508, CSA	UL508, CSA, UL1604 (Haz-Loc Class1, Div2.), ATEX2-22, Marine DNV <sup>(2)</sup>
Connection for iDisplay	Yes	
Dimensions	218 x 165 x 65	218 x 165 x 115
iPC Flash disk	AC MPCSN01NAJ00T <sup>(3)</sup>	MPCSN01NDJ00T
	DC	
iPC hard disk	AC	MPCKN02NAX00N

(1) License VJDSNRTMPC for Vijeo Designer Run Time unlimited to be ordered separately

(2) Marine DNV and ATEX 2-22 for DC version only

(3) Comes with adaptor for external power supply

# Magelis Flex PC BOX



Flex PC BOX F

Flex PC BOX H

Pre-installed software	Windows XP PRO, Vijeo Designer Run Time Demo <sup>(1)</sup>					
Processor	Celeron M@1,86GHz	Core Duo 2Ghz		Celeron M@1,86GHz	Core Duo 2Ghz	
RAM <sup>(4)</sup>	512 MB → 4 GB	1GB → 4 GB	2 GB → 4 GB	512 MB → 4 GB	1 GB → 4 GB	2 GB → 4 GB
Reader/Writer	DVD reader	DVD writer		DVD writer	DVD reader	
Storage	Hard disk ≥ 160 GB <sup>(5)</sup> with RAID option or Flash disk 15 GB					
Expansion	2PCI			4PCI		
Ports Video	1 x DVI-I (RGB support)					
Ethernet ports	2 (10/100/1 G + 10/100)					
Video, Ethernet, I/O ports	1 x DVI-I (RGB support), 2 (10/100/1G + 10/100), 4 x USB, 4 x RS 232					
Certifications	UL508, cUL, UL1604 (Haz-Loc Class1, Div2.), ATEX2-22 <sup>(6)</sup>					
Connection for iDisplay for front panel	Yes					
	Yes					
Dimensions	243 x 160 x 289			243 x 205 x 289		
iPC hard disk	AC	MPCFN02NAX00N	MPCFN05NAX00N	MPCHN02NAX00N	MPCHN05NAX00N	
	DC	MPCFN02NDX00N	MPCFN05NDX00N	MPCHN02NDX00N	MPCHN05NDX00N	
iPC Flash disk Vijeo Citect Full 500 I/O	AC		MPCFN05MAX00N		MPCHN05MAX00N	
	AC		MPCFN05MAX00V		MPCHN05MAX00V	

(1) License VJDSNRTMPC for Vijeo Designer Run Time unlimited to be ordered separately

(4) Management depends on operating system's capacity

(5) 250 GB coming soon

(6) ATEX 2-22 for DC version only

# Remote Magelis iDisplays



15" touch screen & keyboard

15" touch screen

19" touch screen

Touch screen	15" LCD TFT		19" LCD TFT
Resolution	XGA 1024 x 768		SXGA 1280 x 1024
Port on front panel	1 x USB		
Protection for front panel	IP65		
Video ports	1 x VGA and 1 x DVI		
Touch screen ports	1 x USB and 1 x RS 232		
Line voltage	100 to 240 VAC		
Certification	UL508, CSA		
Dimensions	483 x 365 x 65	395 x 294 x 60	460 x 390 x 65
Product references	MPCNB50NAN00N	MPCYT50NAN00N	MPCYT90NAN00N

# Magelis front panel for Flex PC BOX



15" touch screen & keyboard

15" touch screen

19" touch screen

Touch screen	15" LCD TFT		19" LCD TFT
Resolution	XGA 1024 x 768		XGA 1280 x 1024
Port on front panel	1 x USB		
Protection for front panel	IP65		
Dimensions	483 x 365 x 31	420 x 320 x 31	460 x 390 x 44
Product references	MPCYB50NNN00N	MPCYT50NNN00N	MPCYT90NNN00N

# Make the most of your energy

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