Introducing the Easy Series

Essential automation & control products

When just enough is just right!

Motion

HMI

Drives

PLCs

Control & Signaling
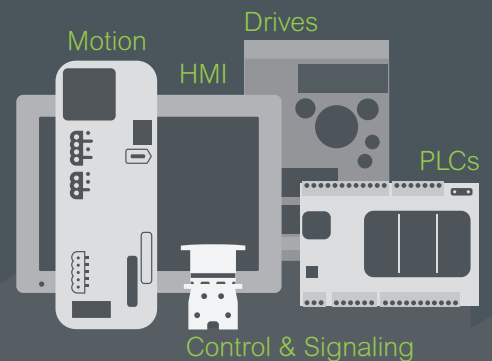
Easy Harmony *i*PC

Human Machine Interfaces

Life Is On | Schneider Electric

General contents

Human Machine Interfaces

Easy Harmony *i*PC
HMIPSO Optimized - 15" and 15.6" touch screens
HMIPSP Performance - 15.6" and 18.5" touch screens
HMIEP5 Box PC

Type of Easy Harmony *i*PC		HMIPSO Optimized Panel PC		HMIPSP Performance Panel PC		HMIEP5 Box PC	
Fanless		★★★★★					
Mounting type		Panel mounting and VESA mounting				Wall and VESA mounting	
Screen	Type	LCD, single-touch resistive screen				–	
	Size	15"	15.6"	15.6"	18.5"	–	
	Resolution	XGA ,1024 × 768 pixels, 16 million colors	FWXGA, 1366 × 768 pixels, 16 million colors			–	
	Degree of protection	IP65 front panel				–	
	View angle	Vertical 160°, horizontal 170°				–	
	Backlight	Life span > 50,000 hours @ 25 °C/77 °F				–	
CPU	Processor	Intel Celeron 3855U (1.6 GHz)		Intel Core i5-6200U (2.3 GHz)		Intel Celeron 3855U (1.6 GHz)	Intel Core i5-6200U (2.3 GHz)
	Expansion slots	1x 2.5" SATA slot and 1x M.2 slot (M.2 support mSATA SSD only)		1x 2.5" SATA slot and 1x M.2 slot (M.2 supports mSATA SSD and NVMe SSD)		1x 2.5" SATA slot and 1 x M.2 slot	
	Storage — Main drive	mSATA SSD 128 GB (BiCS3 3D NAND flash disk)					
	Storage — Slots	1x mini PCIe slot (mSATA)					
	Storage — RAM	4 GB (non-expandable)		8 GB (non-expandable)		4 GB (non-expandable)	8 GB (non-expandable)
	Integrated ports	■ 2x COMs (RS232/RS422/RS485, switchable by DIP switch) ■ 4x USB 3.0 ■ 2x RJ45 10/100/1000 Mbps					
	Watchdog timer	Programmable 255-level timer interval					
Operating system		Windows 10 IoT Enterprise (64-bit multilingual)				– (no pre-installed OS)	
Power supply	Supply voltage	12...24 V ⎓ (-15%/+20%), 2-pin power terminal					
	Power consumption	<= 60 W					
Dimensions	Overall (W × H × D)	393 x 293 x 47 mm (15.5 × 11.5 × 1.85 in.)	400 x 254 x 50.5 mm (15.8 × 10.0 × 1.98 in.)	400 x 254 x 50.5 mm (15.8 × 10.0 × 1.98 in.)	467 x 292.5 x 51.5 mm (18.4 × 11.5 × 2.0 in.)	227.5 x 170 x 58.4 mm (8.96 × 6.69 × 2.3 in.)	
	Mounting cut-out (W × H)	383 x 283 mm (15.1 x 11.1 in.)	390 x 244 mm (15.4 x 9.6 in.)	390 x 244 mm (15.4 x 9.6 in.)	457 x 283 mm (18.0 x 11.1 in.)	156 x 156 mm (6.14 x 6.14 in.), 4 x M4 screws	
Temperature	During operation (1)	0…55 °C/32…131 °F (with SSD), 0…45 °C/32…133 °F (with HDD)					
	During storage	-20…60 °C/-4…140 °F					
Vibration resistance	During operation	1 g from 3…150 Hz					
HMI software	EcoStruxture™ Machine SCADA Expert	Yes				Yes (not pre-installed)	
Standards and certification		C€					
References		**HMIPSOS742D1W01**	**HMIPSOS752D1W01**	**HMIPSPS752D1X01**	**HMIPSPS952D1X01**	**HMIEP5CBN54N0F1**	**HMIEP55BN58N0F1**
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(1) EcoStruxture™ Machine SCADA Expert is pre-installed in Easy Harmony Panel PC as a trial version, activated with subscription.

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Human Machine Interfaces
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HMIEP5 Box PC

Presentation

Easy Harmony *i*PC are the entry level industrial PCs. These simple-in-design *i*PCs with Intel Celeron 3855U and Intel Core i5-6200U CPU cater for the performance requirements of most automation applications in the field.

Benefits

■ Fit for purpose
□ Panel PC LCD backlight: 50,000 hours life time @ 25 ºC/77 *ºF*
□ Simple and compact all-in-one hardware
□ Panel PC pre-installed with EcoStruxure^T Machine SCADA Expert
□ Panel PC supports COM option card with 2 additional COM ports
□ Box PC supports Ethernet option card with 4 additional Ethernet ports

■ Robustness adapted to the environment
□ On-board DDR memory and SSD for protection against the vibration
□ Single-touch resistive screens suitable for industrial application
□ Panel PC have IP65 front protection

■ Easy to use
□ Fanless cooling for maintenance free operation
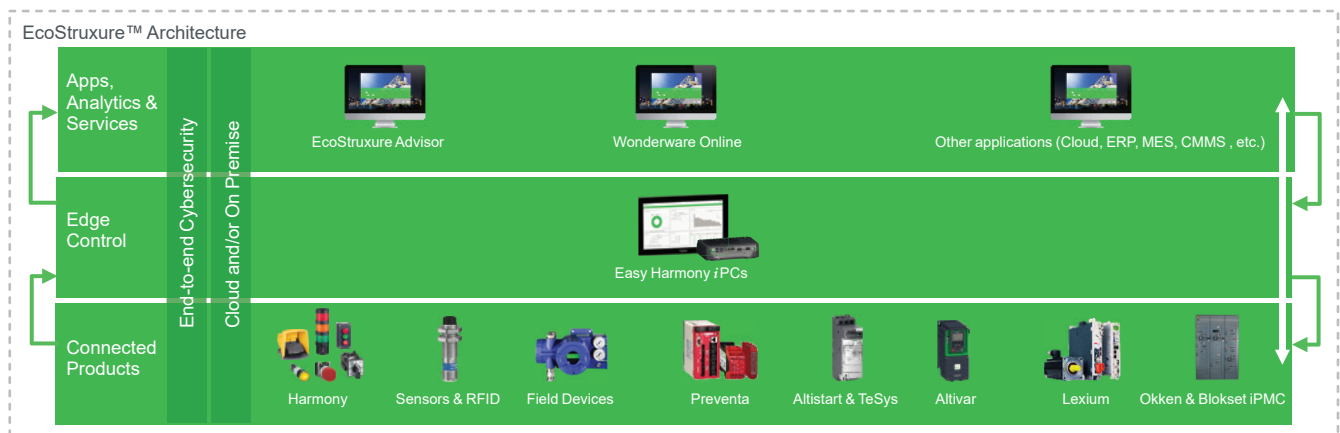□ M.2 (mSATA) slot and 2.5 inch SATA slot, easy for extension

EcoStruxure Architecture

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

The new Easy Harmony *i*PC 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.

Easy Harmony *i*PC offers smart application design and engineering to leverage asset performance with end-to-end cybersecurity.

EcoStruxure™ Architecture

Apps, Analytics & Services			
EcoStruxure Advisor	Wonderware Online		Other applications (Cloud, ERP, MES, CMMS , etc.)

Edge Control

Easy Harmony *i*PCs

Connected Products							
Harmony	Sensors & RFID	Field Devices	Preventa	Altistart & TeSys	Altivar	Lexium	Okken & Blokset iPMC

End-to-end Cybersecurity

Cloud and/or On Premise

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Easy Harmony HMIPSO Optimized 15" and 15.6" Panel PC

Presentation (continued)

Overview of the offer

Easy Harmony HMIPSO Optimized Panel PC

The Easy Harmony HMIPSO Optimized Panel PC offer comprises 2 references, each equipped with:
- Fanless Intel Celeron 3855U (1.6 GHz)
- 4 GB DDR4 RAM, default mounted (non-expandable)
- Connection ports: 4x USB 3.0, 2x COM (RS-232/422/485), 2 Gigabit Ethernet
- Power supply: 12...24 V ⎓ (-15%/+20%)
- Operating system: Windows 10 IoT Enterprise (64-bit multilingual)

Easy Harmony HMIPSP Performance 15.6" and 18.5" Panel PC

Easy Harmony HMIPSP Performance Panel PC

The Easy Harmony HMIPSP Performance Panel PC offer comprises 2 references, each equipped with:
- Fanless Intel Core i5-6200U (2.3 GHz)
- 8 GB DDR4 RAM, default mounted (non-expandable)
- Connection ports: 4x USB 3.0, 2x COM (RS-232/422/485), 2 Gigabit Ethernet
- Power supply: 12...24 V ⎓ (-15%/+20%)
- Operating system: Windows 10 IoT Enterprise (64-bit multilingual)

Easy Harmony HMIEP5 Box PC

Easy Harmony HMIEP5 Box PC

Easy Harmony HMIEP5 Box PC offer comprises 2 references, each equipped with:
- Fanless Intel Celeron 3855U (1.6 GHz) or Core i5-6200U (2.3 GHz)
- 4 GB or 8 GB DDR4 RAM, default mounted (non-expandable)
- Connection ports: 4x USB 3.0, 2x COM (RS-232/422/485), 2 Gigabit Ethernet
- Power supply: 12...24 V ⎓ (-15%/+20%)
- No pre-installed operating system

EcoStruxure Machine Expert

EcoStruxure Machine SCADA Expert

Ready-to-run software for Easy Harmony *i*PC

Easy Harmony *i*PCs are supported by Schneider Electric HMI software. For HMI applications, EcoStruxure Machine SCADA Expert trial version is pre-installed on Easy Harmony HMIPSO/HMIPSP Panel PC and activated to unlimited version with subscription.
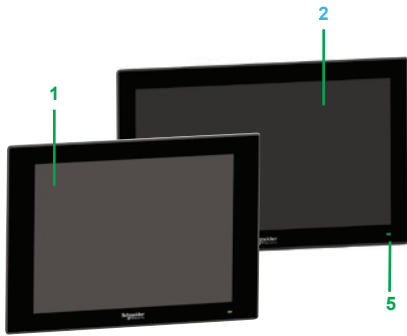
For more information on EcoStruxure Machine Expert and EcoStruxure Machine SCADA Expert, please visit our website www.schneider-electric.com.
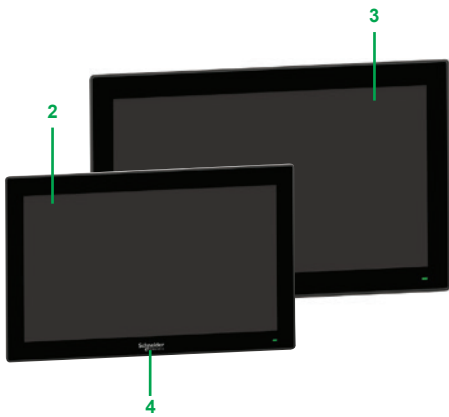
Human Machine Interfaces
Easy Harmony *i*PC
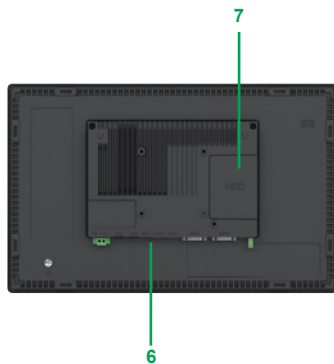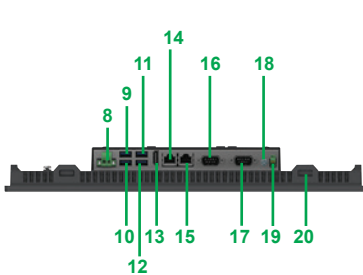### HMIPSO Optimized - 15" and 15.6" touch screens
HMIPSP Performance - 15.6" and 18.5" touch screens

Easy Harmony HMIPSO Optimized 15" and 15.6" Panel PC Front view

Easy Harmony HMIPSP Optimized 15.6" and 18.5" Panel PC Front view

Description
Easy Harmony HMIPSO Optimized: 15" and 15.6" touch screens,

Easy Harmony HMIPSP Performance: 15.6" and 18.5" touch screens
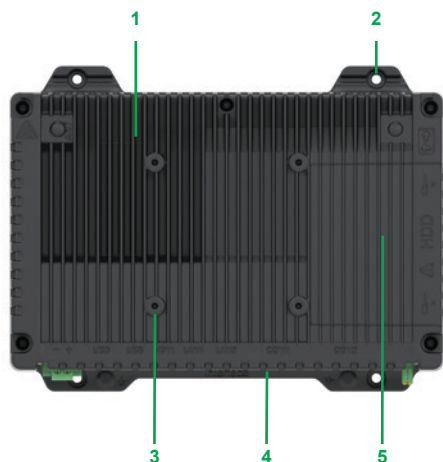
Front view

1 15" LCD with LED backlight, XGA 1024 x 768 pixels, and 16 million colors for **HMIPSOS742D1W01**:
- □ Brightness: 350 cd/m^2 (adjustable)
- □ Type of touch panel: single-touch resistive screen
- □ Typical viewing angle: 160° (vertically)/170° (horizontally)

2 15.6" LCD with LED backlight, FWXGA 1366 × 768 pixels, and 16 million colors for **HMIPSOS752D1W01** and **HMIPSPS752D1X01**:
- □ Brightness: 400 cd/m^2 (adjustable)
- □ Type of touch panel: single-touch resistive screen
- □ Typical viewing angle: 160° (vertically)/170° (horizontally)

3 18.5" LCD with LED backlight, FWXGA 1366 × 768 pixels, and 16 million colors for **HMIPSPS952D1X01**:
- □ Brightness: 450 cd/m^2 (adjustable)
- □ Type of touch panel: single-touch resistive screen
- □ Typical viewing angle: 160° (vertically)/170° (horizontally)

4 Schneider Electric sticker
5 Power status indicator (Green: On, Red: Stand-by, No light: Off)
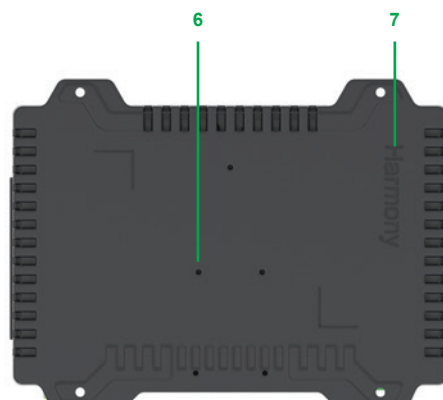

Rear view

Rear view
6 Panel PC interface
7 Cover for mini PCIe card and HDD/SSD drive
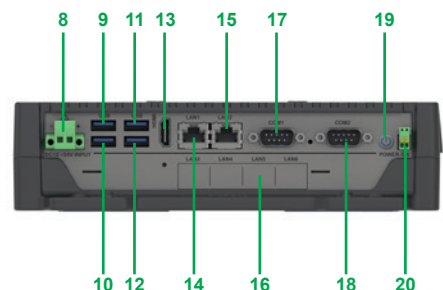

Underside view

Underside view
8 DC power connector
9 1x USB1 (USB 3.0)
10 1x USB2 (USB 3.0)
11 1x USB3 (USB 3.0)
12 1x USB4 (USB 3.0)
13 1x HDMI
14 1x Ethernet LAN1 (10/100/1,000 Mbps)
15 1x Ethernet LAN2 (10/100/1,000 Mbps)
16 1x COM1 RS-232/422/485 port
17 1x COM2 RS-232/422/485 port
18 Power ON/OFF button
19 Remote Switch
20 Snap hook

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Easy Harmony HMIEP5 Box PC
Front view

Description

Easy Harmony HMIEP5 Box PC

Front view

For both **HMIEP5CBN54N0F1** and **HMIEP55BN58N0F1**

1 Aluminum housing

2 Wall mounting design
- External dimension: 227.5 x 170 x 58.4 mm
- Installation dimension: 156 x 156 mm, by 4 x M4 screws

3 VESA mounting design
- Installation Dimension: 75 x 75 mm, by 4 x M4 screws

4 Box PC interfaces

5 Cover for mini PCIe card and HDD/SSD drive installation

Rear view

Rear view

6 Supports 3rd party DIN rail adapter (UTA 136 - 2853996)
7 Harmony (range name) Logo

Underside view

Underside view

8 DC power connector
9 1x USB1 (USB 3.0)
10 1x USB2 (USB 3.0)
11 1x USB3 (USB 3.0)
12 1x USB4 (USB 3.0)
13 1x HDMI
14 1x Ethernet LAN1 (10/100/1,000 Mbps)
15 1x Ethernet LAN2 (10/100/1,000 Mbps)
16 4x Ethernet (optional expand card, 10/100/1,000 Mbps)
17 1x COM1 RS-232/422/485 port
18 1x COM2 RS-232/422/485 port
19 Power ON/OFF button
20 Remote Switch

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HMIPSOS742D1W01

Easy Harmony HMIPSO Optimized Panel PC

Supply voltage	Operating system	Software	CPU	Screen size	Reference	Weight kg/*lb*
12...24 V ⎓ (-15%/+20%), 2-pin power terminal	Windows 10 IoT Enterprise (64-bit multilingual)	EcoStruxure Machine SCADA Expert	Intel Celeron 3855U (1.6GHz)	15"	**HMIPSOS742D1W01**	3.850/ *8.490*
				15.6"	**HMIPSOS752D1W01**	3.800/ *8.380*

HMIPSOS742D1W01

Easy Harmony HMIPSP Performance Panel PC

Supply voltage	Operating system	Software	CPU	Screen size	Reference	Weight kg/*lb*
12...24 V ⎓ (-15%/+20%), 2-pin power terminal	Windows 10 IoT Enterprise (64-bit multilingual)	EcoStruxure Machine SCADA Expert	Intel Core i5-6200U (2.3GHz)	15.6"	**HMIPSPS752D1X01**	3.800/ *8.380*
				18.5"	**HMIPSPS952D1X01**	4.750/ *10.470*

HMIEP5●BN5●N0F1

Easy Harmony HMIEP5 Box PC

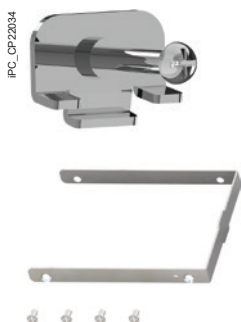| Supply voltage	Operating system	Software	CPU	Screen size	Reference	Weight kg/*lb*
12...24 V ⎓ (-15%/+20%), 2-pin power terminal	No pre-installed operating system	N/A	Intel Celeron 3855U (1.6 GHz)	N/A	**HMIEP5CBN54N0F1**	1.60/ *3.53*
			Intel Core i5-6200U (2.3GHz)	N/A	**HMIEP55BN58N0F1**	1.60/ *3.53*

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HMIYPACCKTPSX1

HMIYEPCOM1

HMIYEPETH1

Separate components					
Description	**Details**	**Compatible with Easy Harmony *i*PC**		**Reference**	**Weight kg/*lb***
		HMIPSO/HMIPSP Panel PC	**HMIEP5 Box PC**		
Accessory kit	■ Snap hook and screw ■ 2-pin power terminal ■ 2.5" HDD/SSD mounting bracket	All models	N/A	**HMIYPACCKTPSX1**	0.200/ *0.440*
COM option card	2 x COM (RS232, RS422/ RS485) via GPIO interface	All models	N/A	**HMIYEPCOM1**	0.05/ *0.11*
ETH option card	4 x Ethernet ports via M.2 interface	N/A	All models	**HMIYEPETH1**	0.05/ *0.11*

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www.se.com

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