

Product data sheet

Specifications



Modular box PC, Harmony iPC, Optimized DC 4 GB M.2 DC Windows

HMIBMOMA5DDF10L

⚠ To be discontinued

⚠ To be discontinued on: Apr 30, 2025

⚠ To be end-of-service on: Apr 30, 2029

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 1,975.00 USD

Main

Range of Product	Harmony iPC
Product or Component Type	Modular box PC
Device short name	Modular BOX PC Optimized Expandable
Range Compatibility	IDisplay Modular Display HMIDM
Accessory / separate part destination	PC panel HMIDM modular display
Processor name	Intel Atom E3930 upto 1.8 GHz
Operating system	Windows 10 IoT Enterprise 64 bitmulti-language
Software package	Node-RED and system nodes restore IIoT Wiring Operating System Restore McAfee white listing installer cyber security license not included EcoStruxure secure connect advisor annual subscription cyber security license not included EcoStruxure Operator Terminal Expert run time HMI license not included EcoStruxure machine SCADA expert run time HMI/SCADA on configured offer only EcoStruxure augmented operator advisor server augmented operator license not included

Complementary

Mounting Location	Book mounting Flat mounting Wall mounting
Data storage equipment	250 GB M.2 SSD TLC 1500000 h
Memory description	4 GB RAM DDR3 internal not expandable)
Free slots	1 M.2 SSD 1.0 Internal SATA HDD/SSD with adapter HMIYBADHDBMO1 to mount
Number of slots	1 slot(s) for mini PCI Express full-size without optional interface plate,
Number of slots available for expansion	1.0 mini PCIe
Display resolution	3200 x 2000 pixels at 60 Hz
Watchdog timer	1...255 ms
Type of cooling	Fanless
Electrical connection	Screw connector, connector type: pin, 1 way, circuit application: ground - location: bottom Connector, connector type: SMA, 3 ways - location: top

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Integrated connection type	Display port 2 front Ethernet 2 RJ45 I210 10/100/1000 Mbps bottom IEEE 1588 supported COM1 serial link battery backup 1 male SUB-D 9 RS232 bottom COM2 serial link 1 male SUB-D 9 RS232/422/485 bottom non-isolated USB 2.0 port 2 USB type A 480 Mbit/s bottom non-isolated USB 3.0 port 2 USB type A 5 Gbit/s bottom TPM connector Ver 2.0 cyber security - hardware encryption TPM module HMIYMINATPM201 to be installed/default installed motherboard
Cyber secured boot	Secure password boot UEFI
[Us] rated supply voltage	24 V DC power supply 100...240 V AC power supply
Supply voltage limits	9.6...28.8 V
Inrush current	2.03 A
Power consumption in W	25.0 W box) 17.0 W with 4:3 12" display HMIDM6421) 17.0 W with Wide 12" display HMIDM6521) 18.0 W with 4:3 15" display HMIDM7421) 20.0 W with Wide 15" display HMIDM7521) 21.0 W with Wide 19" display HMIDM9521) 22.0 W with Wide 22" display HMIDMA521)
Control type	ON/OFF button
Impregnation material	Conformal coated
Main type	Optimised
Depth	2.1 in (54 mm)
Height	5.9 in (150 mm)
Width	7.4 in (187 mm)
Net Weight	2.9 lb(US) (1.3 kg)

Environment

Environmental characteristic	Hazardous location with additional adaptor HMIYMMAC1
Standards	Class A group 1 IEC 55011 IEC 61000-6-4 IEC 61131-2 FCC part 15 UL 61010
Product certifications	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 CCC RCM EAC IEC Ex hazardous locations 3GD zone 2/22
Quality labels	CE
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
IP degree of protection	IP40 IEC 60529
Electromagnetic compatibility	Immunity to high frequency interference conforming to IEC 61000-4 Disturbing field emission class A conforming to IEC 55011 Conducted and radiated emissions class A conforming to EN 55022
Ambient air temperature for storage	-22...158 °F (-30...70 °C) IEC 60068-2-2 -22...158 °F (-30...70 °C) IEC 60068-2-14
Relative Humidity	10...95 % non-condensing IEC 60068-2-30

Ambient air temperature for operation	32...131 °F (0...55 °C) by default) IEC 60068-2-2 32...131 °F (0...55 °C) flat mounting 32...122 °F (0...50 °C)HDD 32...122 °F (0...50 °C) flat mountingHDD
Operating altitude	6561.68 ft (2000 m) IEC 60664-1
Vibration resistance	2 gn 5...500 Hz) M.2 SSD 1 gn 5...500 Hz) HDD

Ordering and shipping details

Category	US10MC222577
Discount Schedule	0MC2
GTIN	3606481245755
Returnability	No
Country of origin	TW

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.91 in (15.0 cm)
Package 1 Width	9.25 in (23.5 cm)
Package 1 Length	14.76 in (37.5 cm)
Package 1 Weight	4.634 lb(US) (2.102 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	15.4 lb(US) (7.0 kg)

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

How this information helps you >

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	5329
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Environmental Disclosure	Product Environmental Profile
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Use Better

Materials and Substances

Packaging made with recycled cardboard	No
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Packaging without single use plastic	No
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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SCIP Number	3fe7d895-f8a3-452a-ad75-1d17e7e6e6eb
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REACH Regulation	REACH Declaration
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China RoHS Regulation	China RoHS declaration
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California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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Use Again

 Repack and remanufacture

Circularity Profile

[End of Life Information](#)

WEEE



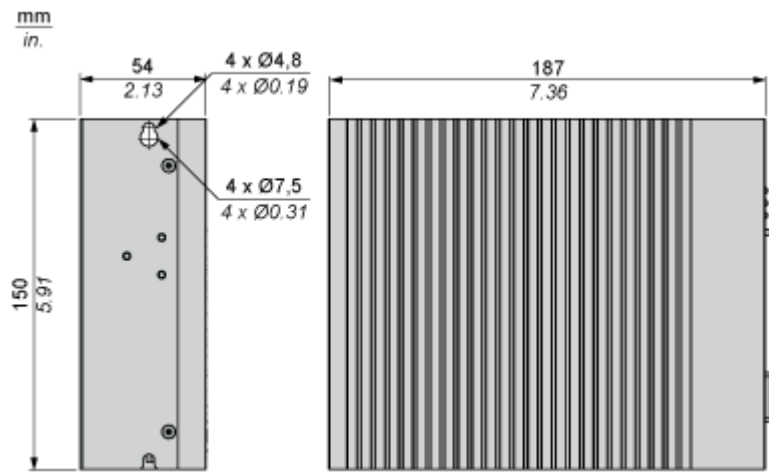
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Take-back

No

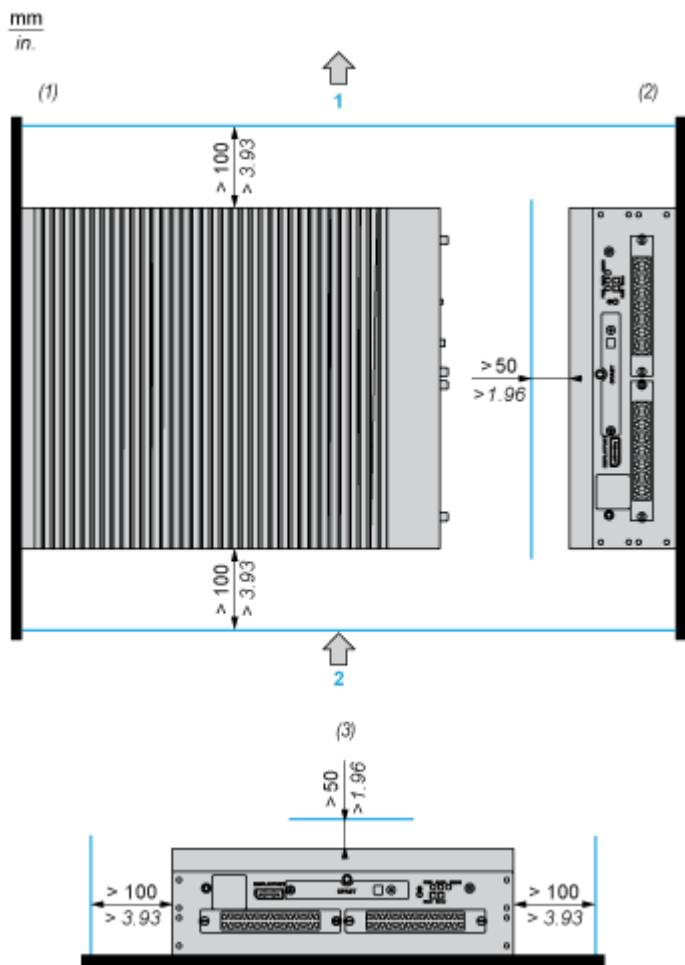
Dimensions Drawings

Dimensions



Mounting and Clearance

Spacing Requirements



- 1 : Air out
- 2 : Air in
- (1) Book mounting : Vertical mounting with rear fixing
- (2) Wall mounting : Vertical mounting with side fixing
- (3) Horizontal mounting