

# Product datasheet

Specifications



## Modular box PC, Harmony iPC, IloT DC Base unit 4 GB

HMIBMIEA5DD1001

### Main

Range of product	Harmony iPC
Product or component type	Modular box PC
Device short name	Modular BOX PC basic Optimized
Range compatibility	IDisplay Modular Display HMIDM
Accessory / separate part destination	PC panel on HMIDM modular display
Processor name	Intel Atom E3930 upto 1.8 GHz
Software package	Node-RED and system nodes restore IloT 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	64 GB eMMC (soldered)
Memory description	4 GB RAM DDR3 internal (not expandable)
Number of slots	1 slot(s) for mini PCI Express full-size with optional interface plate,
Number of slots available for expansion	1.0 slot(s) for 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
Integrated connection type	Display port with 1 on front Ethernet with 2 RJ45 I210, transmission rate: 10/100/1000 Mbps on bottom IEEE 1588 supported COM1 serial link for battery backup with 1 male SUB-D 9 RS232/422/485 on bottom non-isolated USB 2.0 port with 1.0 USB type A, transmission rate: 480 Mbit/s on bottom USB 3.0 port with 1.0 USB type A, transmission rate: 5 Gbit/s on bottom TPM connector Ver 2.0 for cyber security - hardware encryption TPM module HMIYMINATPM201 to be installed/default installed on motherboard
Cyber secured boot	Secure password boot UEFI
[Us] rated supply voltage	24 V DC power supply 100...240 V AC power supply

<b>Supply voltage limits</b>	9.6...28.8 V
<b>Inrush current</b>	2.03 A
<b>Power consumption in W</b>	20.0 W (box) 15.0 W (with 4:3 12" display HMIDM6421) 16.0 W (with Wide 12" display HMIDM6521) 17.0 W (with 4:3 15" display HMIDM7421) 19.0 W (with Wide 15" display HMIDM7521) 20.0 W (with Wide 19" display HMIDM9521) 21.0 W (with Wide 22" display HMIDMA521)
<b>Control type</b>	ON/OFF button
<b>Main type</b>	Basic Optimised
<b>Depth</b>	46 mm
<b>Height</b>	150 mm
<b>Width</b>	187 mm
<b>Product weight</b>	1.2 kg

## Environment

<b>Standards</b>	Class A group 1 EN 55011 EN 61000-6-4 EN 61131-2 FCC part 15 UL 60950
<b>Product certifications</b>	CE CULus UL 60950 for IT equipments CCC RCM EAC
<b>Quality labels</b>	CE
<b>Directives</b>	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>Electromagnetic compatibility</b>	Immunity to high frequency interference conforming to IEC 61000-4 Disturbing field emission class A conforming to EN 55011 Conducted and radiated emissions class A conforming to EN 55022
<b>Ambient air temperature for storage</b>	-20...60 °C conforming to IEC 60068-2-2 -20...60 °C conforming to IEC 60068-2-14
<b>Relative humidity</b>	10...95 % non-condensing conforming to EN/IEC 60068-2-30
<b>Ambient air temperature for operation</b>	0...50 °C (by default) conforming to EN/IEC 60068-2-2 0...50 °C flat mounting 0...45 °C on mini PCIe 0...45 °C flat mounting on mini PCIe
<b>Operating altitude</b>	2000 m conforming to EN/IEC 60664-1
<b>Vibration resistance</b>	2 gn (f = 5...500 Hz) eMMC

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.5 cm
<b>Package 1 Width</b>	22.0 cm
<b>Package 1 Length</b>	32.0 cm
<b>Package 1 Weight</b>	1.6 kg
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	30.0 cm

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<b>Package 2 Width</b>	40.0 cm
<b>Package 2 Length</b>	60.0 cm
<b>Package 2 Weight</b>	10.37 kg

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## **Offer Sustainability**

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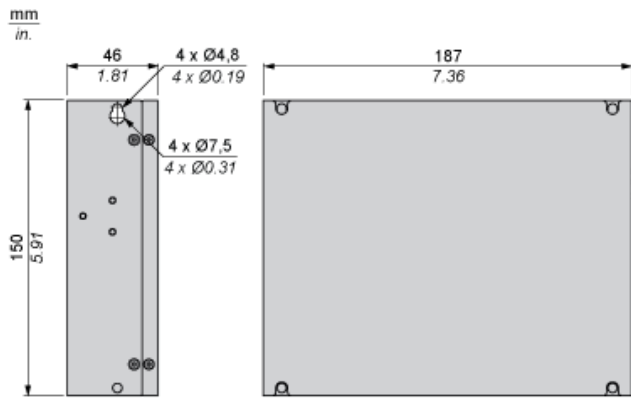
<b>EU RoHS Directive</b>	Under investigation
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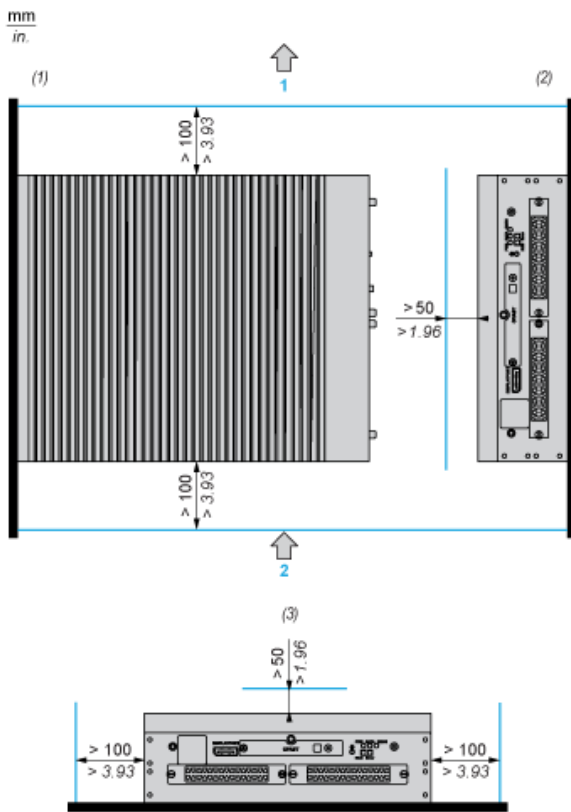
**WEEE** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Dimensions

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**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

**Recommended replacement(s)**