

# Product datasheet

Specifications



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

HMIBMOMA5DDF10L

Price: 34,032.65 ZAR

### Main

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range Of Product                      | Harmony iPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product Or Component Type             | Modular box PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Device Short Name                     | Modular BOX PC Optimized Expandable                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Range Compatibility                   | IDisplay<br>Modular Display HMIDM                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Accessory / Separate Part Destination | PC panel on 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<br>McAfee white listing installer cyber security license not included<br>EcoStruxure secure connect advisor annual subscription cyber security license not included<br>EcoStruxure Operator Terminal Expert run time HMI license not included<br>EcoStruxure machine SCADA expert run time HMI/SCADA on configured offer only<br>EcoStruxure augmented operator advisor server augmented operator license not included |

### Complementary

|                                         |                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting Location                       | Book mounting<br>Flat mounting<br>Wall mounting                                                                                                       |
| Data Storage Equipment                  | 250 GB M.2 SSD TLC for 1500000 h                                                                                                                      |
| Memory Description                      | 4 GB RAM DDR3 internal (not expandable)                                                                                                               |
| Free Slots                              | 1 M.2 SSD<br>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 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<br>Connector, connector type: SMA, 3 ways - location: top |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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 with 2 on front<br>Ethernet with 2 RJ45 I210, transmission rate: 10/100/1000 Mbps on bottom IEEE 1588 supported<br>COM1 serial link for battery backup with 1 male SUB-D 9 RS232 on bottom<br>COM2 serial link with 1 male SUB-D 9 RS232/422/485 on bottom non-isolated<br>USB 2.0 port with 2 USB type A, transmission rate: 480 Mbit/s on bottom non-isolated<br>USB 3.0 port with 2 USB type A, transmission rate: 5 Gbit/s on bottom<br>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<br>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)<br>17.0 W (with 4:3 12" display HMIDM6421)<br>17.0 W (with Wide 12" display HMIDM6521)<br>18.0 W (with 4:3 15" display HMIDM7421)<br>20.0 W (with Wide 15" display HMIDM7521)<br>21.0 W (with Wide 19" display HMIDM9521)<br>22.0 W (with Wide 22" display HMIDMA521)                                                                                                                                                                                                                                                                                                                 |
| Control Type               | ON/OFF button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Impregnation Material      | Conformal coated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Main Type                  | Optimised                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                      | 54 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Height                     | 150 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Width                      | 187 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Net Weight                 | 1.3 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

|                                     |                                                                                                                                                                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Characteristic        | Hazardous location with additional adaptor HMIYMMAC1                                                                                                                                                                  |
| Standards                           | Class A group 1 EN 55011<br>EN 61000-6-4<br>EN 61131-2<br>FCC part 15<br>UL 61010                                                                                                                                     |
| Product Certifications              | CE<br>CULus<br>CULus CSA 22-2 No 142<br>CULus HazLoc Class I Division 2 ANSI/ISA 12-12-01<br>CULus HazLoc Class I Division 2 CSA 22-2 No 213<br>ATEX<br>CCC<br>RCM<br>EAC<br>IEC Ex hazardous locations 3GD zone 2/22 |
| Quality Labels                      | CE                                                                                                                                                                                                                    |
| Directives                          | 2004/108/EC - electromagnetic compatibility<br>2006/95/EC - low voltage directive                                                                                                                                     |
| Ip Degree Of Protection             | IP40 conforming to IEC 60529                                                                                                                                                                                          |
| Electromagnetic Compatibility       | Immunity to high frequency interference conforming to IEC 61000-4<br>Disturbing field emission class A conforming to EN 55011<br>Conducted and radiated emissions class A conforming to EN 55022                      |
| Ambient Air Temperature For Storage | -30...70 °C conforming to IEC 60068-2-2<br>-30...70 °C conforming to IEC 60068-2-14                                                                                                                                   |
| Relative Humidity                   | 10...95 % non-condensing conforming to EN/IEC 60068-2-30                                                                                                                                                              |

|                                       |                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature For Operation | 0...55 °C (by default) conforming to EN/IEC 60068-2-2<br>0...55 °C flat mounting<br>0...50 °C on HDD<br>0...50 °C flat mounting on HDD |
| Operating Altitude                    | 2000 m conforming to IEC 60664-1                                                                                                       |
| Vibration Resistance                  | 2 gn (f = 5...500 Hz) M.2 SSD<br>1 gn (f = 5...500 Hz) HDD                                                                             |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 15.0 cm  |
| Package 1 Width              | 23.5 cm  |
| Package 1 Length             | 37.5 cm  |
| Package 1 Weight             | 2.102 kg |
| Unit Type Of Package 2       | S04      |
| Number Of Units In Package 2 | 3        |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 40.0 cm  |
| Package 2 Length             | 60.0 cm  |
| Package 2 Weight             | 7.0 kg   |

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

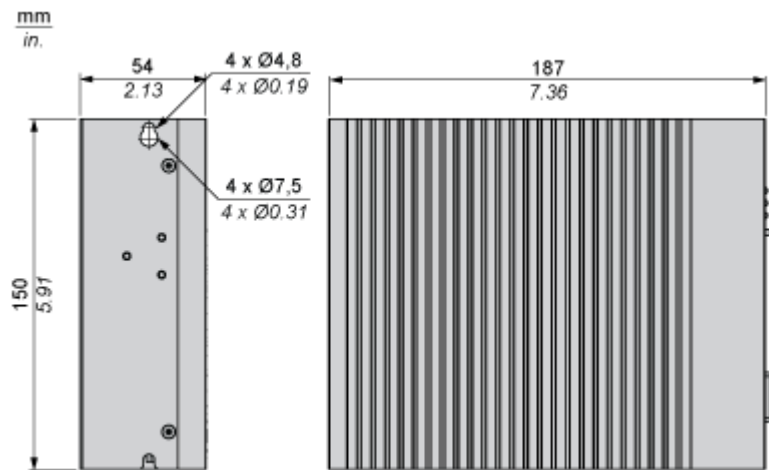
|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |

Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |

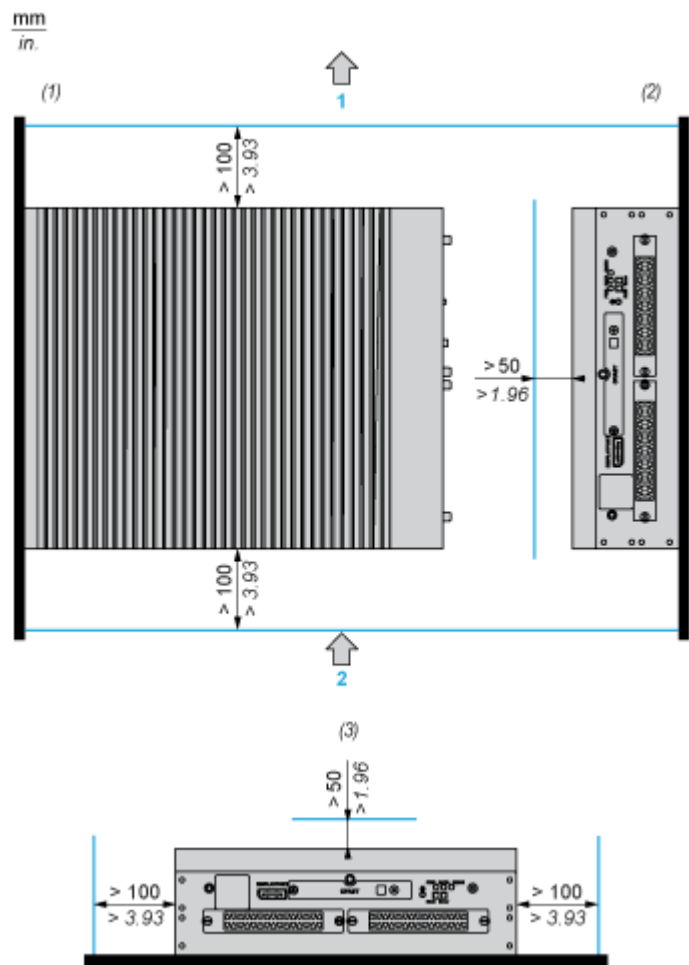
Dimensions Drawings

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