

Product data sheet

Specifications



IloT Edge Box Core, Harmony iPC, eMMC DC Linux

HMIBSCEA53D1L01

⚠ Discontinued on: Mar 31, 2024

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

⚠ Discontinued

Main

Range of Product	Harmony iPC
Product or Component Type	IloT Edge Box Core
Device short name	IloT Edge Box Core
Range Compatibility	HMIYMIN4GUS1 Interface Mini PCIe 4G US for iPC HMIYMIN4GEU1 Interface Mini PCIe 4G EU for iPC HMIYMIN8AI1 Interface Mini PCIe 8x Analog Input 0-10V HMIYBIN2AIM21 Interface M.2 2x Analog Input 0-10V/4-20mA
Accessory / separate part destination	Celullar 4G and analog Inputs
Processor name	ARM Cortex-A53 quad core 1.2 GHz Qualcomm Snapdragon 410
Operating system	Linux Yocto Linux Yocto project Krogoth 2.1) Linux Yocto BitBake branch 1.30.0) Linux Yocto Linux Kernel 4.4.38)
Software package	Node-RED and system nodes default IloT Wiring

Complementary

Mounting Location	Book mounting Flat mounting Wall mounting
Data storage equipment	8 GB eMMC (soldered)
Memory description	1 GB RAM LPDDR3 internal not expandable)
Free slots	1 SD card SD 3.0, max raw transfer rate 104 MBps Supports SD,SDHC,SDXC (Standard 32 mm x 24 mm)
Number of slots	1 slot(s) for mini PCI Express full-size with optional interface plate, 1 slot(s) for M.2 not for storage,
Number of slots available for expansion	1.0 mini PCIe 1.0 M.2 (not for storage)
Display resolution	1920 x 1080 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 - location: top
Integrated connection type	HDMI For configuration only 1 bottom Ethernet 2 RJ45 SMC LAN7500 10/100/1000 Mbps bottom IEEE 1588 not supported COM1 serial link battery backup 1 male SUB-D 9 RS232/422/485 non-isolated USB 2.0 port 2.0 USB type A 480 Mbit/s bottom TPM connector Ver 2.0 cyber security - hardware encryption TPM module HMIYMINATPM201 to be installed/default installed motherboard

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

Communication network type	1.0 WCN3620 Wi-Fi 2.4 GHz conforming to IEEE 802.11 b/g/n 1.0 WCN3620 Bluetooth 4.1
Cyber secured boot	Secure password boot
Connector type	1.0 GPIO Pin, 8 pins bottom(Software utility provided)
[Us] rated supply voltage	24 V DC power supply 100...240 V AC power supply
Supply voltage limits	12...24 V
Inrush current	0.43 A
Power consumption in W	16 W
Control type	Resettable
Main type	IIoT Edge Box Core
Depth	1.8 in (46 mm)
Height	5.9 in (150 mm)
Width	6.2 in (157 mm)
Net Weight	2.2 lb(US) (1 kg)

Environment

Standards	Class A group 1 IEC 55011 IEC 61000-6-4 IEC 61131-2 FCC part 15 UL 60950
Product certifications	CE CULus UL 60950 for IT equipments CCC RCM EAC RED FCC RF IC SRRC TELEC FAC ANATEL
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	-4...140 °F (-20...60 °C) IEC 60068-2-2 -4...140 °F (-20...60 °C) IEC 60068-2-14
Relative Humidity	10...95 % non-condensing IEC 60068-2-30
Ambient air temperature for operation	32...122 °F (0...50 °C) by default) IEC 60068-2-2 32...122 °F (0...50 °C) flat mounting 32...113 °F (0...45 °C)mini PCIe 32...113 °F (0...45 °C) flat mountingmini PCIe
Operating altitude	6561.68 ft (2000 m) IEC 60664-1
Vibration resistance	2 gn 5...500 Hz) eMMC

Ordering and shipping details

Category	US10MC222577
Discount Schedule	0MC2
GTIN	3606489740467
Returnability	No
Country of origin	TW

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.35 in (8.5 cm)
Package 1 Width	8.66 in (22 cm)
Package 1 Length	12.60 in (32 cm)
Package 1 Weight	3.007 lb(US) (1.364 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	19.6 lb(US) (8.9 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	72
Package 3 Height	31.50 in (80 cm)
Package 3 Width	41.34 in (105 cm)
Package 3 Length	49.21 in (125 cm)
Package 3 Weight	271.627 lb(US) (123.208 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

Environmental Disclosure

[Product Environmental Profile](#)

Use Better

Materials and Substances

EU RoHS Directive

Pro-active compliance
(Product out of EU RoHS legal scope)

SCIP Number

D4ad8e0b-17b8-41d6-ba27-26a646b8fe5b

China RoHS Regulation

[China RoHS declaration](#)

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

Use Again

Repack and remanufacture

Circularity Profile

[End of Life Information](#)

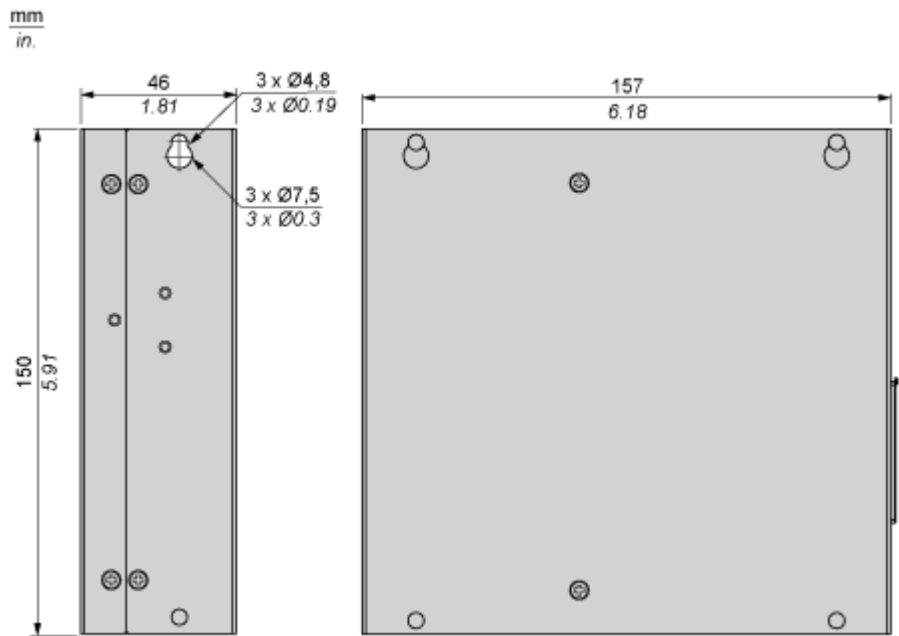
WEEE



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

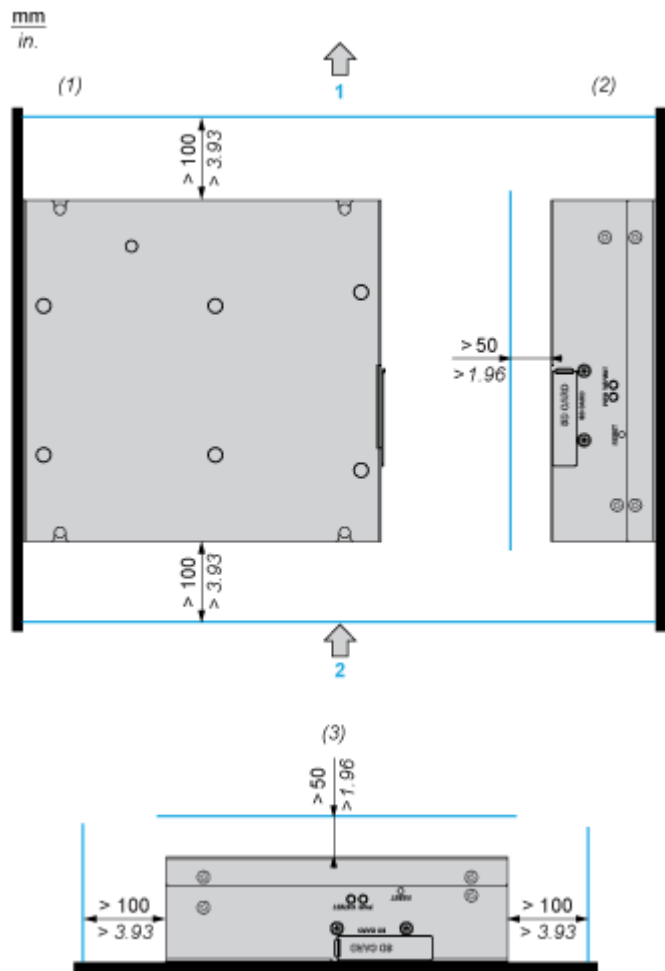
Dimensions Drawings

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