Product data sheet
Characteristics

HMIBMIEA5DD1E01
Modular box PC, Harmony iPC, IIoT Edge Smart eMMC DC Windows TPM

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 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 EcoStruxture secure connect advisor annual subscription cyber security license not included EcoStruxture Operator Terminal Expert run time HMI license not included EcoStruxture 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 mini PCIe
Display resolution	3200 x 2000 pixels at 60 Hz
Watchdog timer	1…255 ms
Type of cooling	Fanless
Electrical connection	Screw connector pin, 1 way ground bottom Connector SMA, 3 ways top
Integrated connection type	Display port 1 front Ethernet 2 RJ45 Realtek 8111G 10/100/1000 Mbps bottom IEEE 1588 not supported COM1 serial link battery backup 1 male SUB-D 9 RS232/422/485 bottom non-isolated USB 2.0 port 1.0 USB type A 480 Mbit/s bottom USB 3.0 port 1.0 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	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)

Control type	ON/OFF button
Main type	Basic Optimised
Depth	1.81 in (46 mm)
Height	5.91 in (150 mm)
Width	7.36 in (187 mm)
Net Weight	2.65 lb(US) (1.2 kg)

Environment

Standards	Class A group 1 EN 55011 EN 61000-6-4 EN 61131-2 FCC part 15 UL 60950
Product certifications	CE CULus UL 60950 for IT equipments EAC CCC RCM
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 IEC 61000-4 Disturbing field emissionclass A EN 55011 Conducted and radiated emissionsclass A EN 55022
Ambient air temperature for storage	-4…140 °F (-20…60 °C) IEC 60068-2-2
Relative Humidity	10…95 % non-condensing EN/IEC 60068-2-30
Ambient air temperature for operation	32…122 °F (0…50 °C) by default)mini PCIe EN/IEC 60068-2-2 32…122 °F (0…50 °C) flat mountingmini PCIe 32…113 °F (0…45 °C) 32…113 °F (0…45 °C) flat mounting
Operating altitude	6561.68 ft (2000 m) EN/IEC 60664-1
Vibration resistance	2 gn 5…500 Hz) eMMC

Ordering and shipping details

Category	22577-EDGE BOX IPC
Discount Schedule	MC2
GTIN	3606489740429
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.31 in (8.400 cm)
Package 1 Width	8.58 in (21.800 cm)
Package 1 Length	12.68 in (32.200 cm)
Package 1 Weight	3.67 lb(US) (1.666 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	15.75 in (40.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	23.72 lb(US) (10.759 kg)

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Offer Sustainability

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
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions