

Product data sheet

Specifications



Edge compute node, Modicon M580, ARM V7 32 bit, Linux, Application platform, Container technology

BMEECN0100H

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

Main

Range of Product	Modicon M580
Device Application	Application platform
Operating System	Linux Yocto V5.4 dunfell
Product or Component Type	Edge compute node
Processor Name	ARM V7 32 bit dual core at 500 MHz
Memory Type	1 GB ECC DDR3 RAM
Data storage equipment	8 GB eMMC internal storage)

Complementary

Product compatibility	Modicon M580 standalone CPU (BMEP58.....) Modicon M580 safety CPU (non interfering type 1) (BMEP582.....) Modicon X80 Rack with Ethernet backplane (BMEXBP.....)
Mounting Location	Main rack
Backplane slot location	Ethernet + X-bus Slot
Slot occupied by module	1
Maximum number of modules per rack	2
Supply	Internal power supply via rack
Integrated connection type	1 Ethernet port RJ45 10/100/1000 Mbit/s double shielded twisted pair
Exchange mode	Half duplex, full duplex, autonegotiation
Transmission support medium	Ethernet backplane
Software package	Docker V19.03.8 Schneider Applications
OPC UA	OPC UA server 2 maximum subscriptions per session 1000 monitored item max in fast sampling mode 20 ms, minimum publishing interval in fast sampling mode 100000, maximum number of nodes 2 clients connection max
Communication Service	OPC UA server (container only) Network management SNMP agent V1 Time synchronization NTP V4 - Client and Server
Network	Network segmentation
Cybersecurity	Secure communication (HTTPS) REST API with transport layer security (TLS) Network physical isolation Achilles level 2 tested
Web server	For commissioning, operational and maintenance

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

Current consumption	<= 155 mA 24 V DC
Type of cooling	Fanless
Electrical Connection	Plug in via rack
Local signalling	1 LED (green) for processor running (RUN) 1 LED (red) for processor or system fault (ERR) 1 LED (red) for I/O LED status 1 LED (green/red) for container status 1 LED (green/red) for USR1 LED status 1 LED (green/red) for USR2 LED status 1 LED (green/red) for SECURE status 1 LED (green/red) for control port status 1 LED (green/red) for CONFIG status
Width	1.3 in (32.0 mm)
Height	5.2 in (131.0 mm)
Length	3.39 in (86.05 mm)
Net Weight	0.9 lb(US) (0.4 kg)

Environment

IP Degree of Protection	IP20
Protective treatment	Conformal coating
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation
Operating altitude	6561.68 ft (2000 m) 2000 m...5000 m with derating factor
Vibration resistance	3 gn
Shock resistance	30 gn
Marking	CE
Product certifications	CE CULus RCM UKCA EAC
Standards	IEC 61131-2 IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 EN/IEC 61000-6-5, interface type 1 and type 2 EN/IEC 61850-3, location G
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Environmental characteristic	Hazardous location class I division 2

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606486442685
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.165 in (5.500 cm)
Package 1 Width	7.087 in (18.000 cm)
Package 1 Length	10.236 in (26.000 cm)
Package weight(Lbs)	19.189 oz (544.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	10.664 lb(US) (4.837 kg)

Contractual warranty

Warranty (in months)	18
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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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	194 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	30 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	163 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration

Use Longer



Lifetime extension

Repair	No
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Use Again

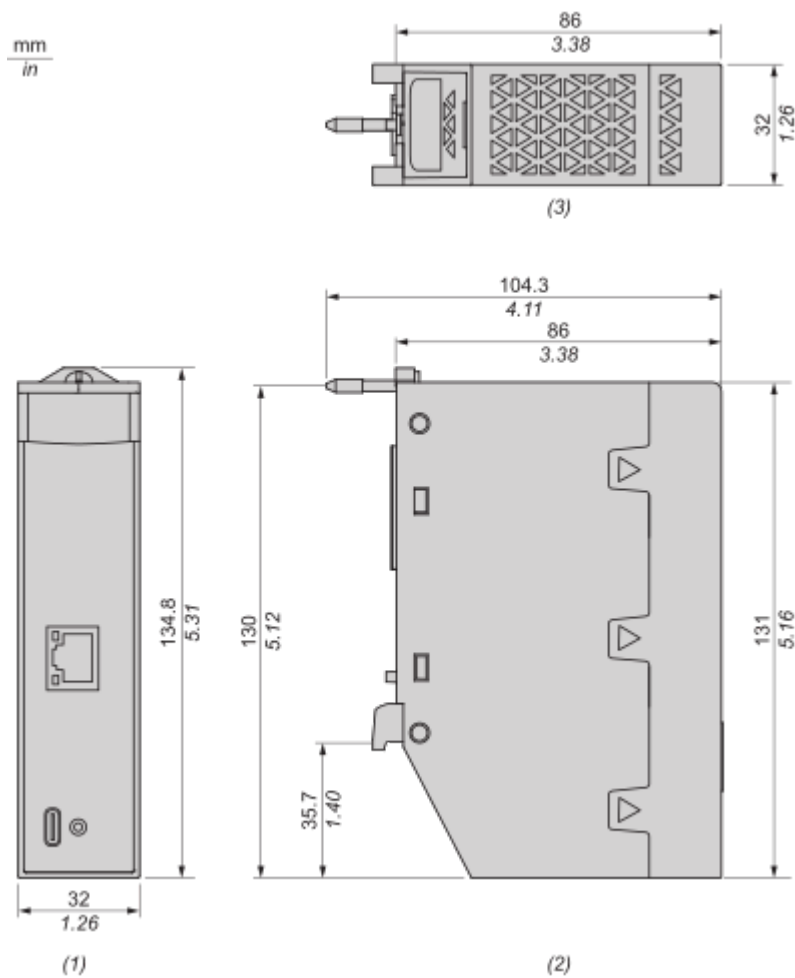


Repack and remanufacture

Recyclability potential, in %	32
Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Module Dimensions



- (1) : Front View
- (2) : Side View
- (3) : Top View

Image of product / Alternate images

Alternative





