

Product data sheet

Specifications



communication module, Modicon M580, OPC UA

BMENUA0100

Main

Range of product	Modicon M580
Product or component type	Communication module
Device application	OPC UA server & IT control network

Complementary

Product compatibility	Modicon M580 standalone CPU (BMEP58.....) Modicon M580 redundant CPU (BMEH58.....) Modicon M580 safety CPU (non interfering type 1) (BMEP582.....) Modicon M580 safety redundant CPU (non interfering type 1) (BMEH582.....) 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, connector type: RJ45, transmission rate: 10/100/1000 Mbit/s, transmission mode: double shielded twisted pair
Exchange mode	Half duplex and full duplex
Transmission support medium	Ethernet backplane
OPC UA	OPC UA server 10 clients connection max 50000 monitored item max in standard sampling mode 2000 monitored item max in fast sampling mode 40 maximum subscriptions per session 250 ms, minimum publishing interval in standard sampling mode 20 ms, minimum sampling interval in fast sampling mode 20 ms, minimum publishing interval in fast sampling mode 125 ms, sampling interval in standard sampling mode 100000, maximum number of nodes of data dictionary Warm redundancy mode
Source timestamping	Only digital IOs or variables 250 ms, minimum polling of buffer 5000 ms, maximum polling of buffer
Network	IPV6 IP forwarding (Front port and backplane) Service forwarding Network segmentation
Communication service	Modbus TCP server for module diagnostics Network management SNMP agent V1 and V3 Time synchronization NTP V4 - Client and Server

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

Cybersecurity	Secure communication (HTTPS) Built-in firewall Certificate based authentication Certificate management (self-signed and PKI) System hardening Role-based access control (web interface) Syslog protocol support IPSec (initiator and responder role) Network physical isolation
Function available	CCOTF (configuration change on the fly) Hot swappable module Export & import webpage configuration Advanced diagnostic information (DDT, web pages, OPC UA objects) SCADA connection via communication protocol forwarding
Web server	For commissioning, operational and maintenance
Current consumption	<= 140 mA at 24 V DC
Local signalling	1 LED (green) for processor running (RUN) 1 LED (red) for processor or system fault (ERR) 1 LED (green/red) for ETH MS (Ethernet port configuration status) 1 LED (green/red) for Eth NS (Ethernet network status) 1 LED (green/red) for status (STS) 1 LED (yellow) for communication data bus
Width	32 mm
Height	131 mm
Length	86.05 mm
Net weight	0.4 kg

Environment

IP degree of protection	IP20
Protective treatment	Standard version
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	5...95 % at 55 °C without condensation
Operating altitude	0...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 Merchant Navy
Standards	IEC 61131-2 IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201 IACS E10 EN/IEC 61000-6-5, interface type 1 & 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	18.000 cm
Package 1 Length	26.000 cm
Package 1 Weight	530.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.707 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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint 186

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH 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

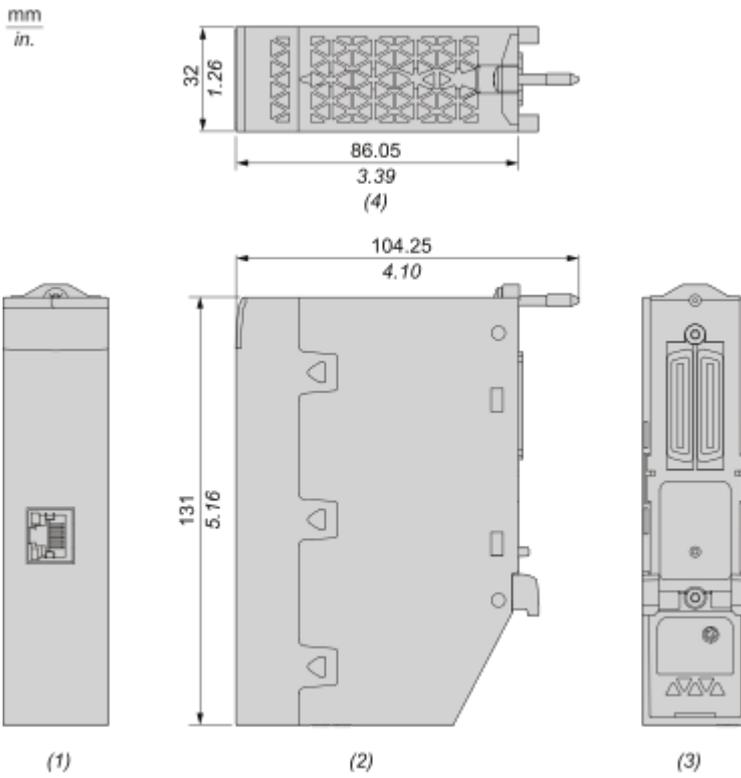
Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

Dimensions Drawings

Dimensions



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

Image of product / Alternate images

Alternative



