Product data sheet

Specifications



communication module, Modicon M580, OPC UA

BMENUA0100

Product availability: Stock - Normally stocked in distribution facility

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 RJ45 10/100/1000 Mbit/s 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 Hot 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

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

Cybersecurity	Secure communication (HTTPS) Built-in firewall Certificate based authentication System hardening Role-based access control Syslog protocol support IPSec (initiator and responder role) Network physical isolation Achilles level 2 tested
Function Available	CCOTF (configuration change on the fly) Hot swappable module Advanced diagnostic information (DDT, web pages, OPC UA objects) SCADA connection through Modbus TCP
Web server	For commissioning, operational and maintenance
Current consumption	<= 140 mA 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	1.3 in (32 mm)
Height	5.2 in (131 mm)
Length	3.39 in (86.05 mm)
Product Weight	0.9 lb(US) (0.4 kg)

Environment

IP Degree of Protection	IP20
Protective treatment	Standard version
Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Relative humidity	5…95 % 131 °F (55 °C) without condensation
Operating altitude	0...6561.68 ft (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

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
GTIN	3606489751364
Returnability	Yes
Country of origin	US

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)	18.695 oz (530.000 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	10.441 lb(US) (4.736 kg)

Contractual warranty

Warranty (in months)	18

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 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**38 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.2 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**147 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.5 kg CO2 eq.**
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	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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 Longer

Lifetime extension

Repair	**No**

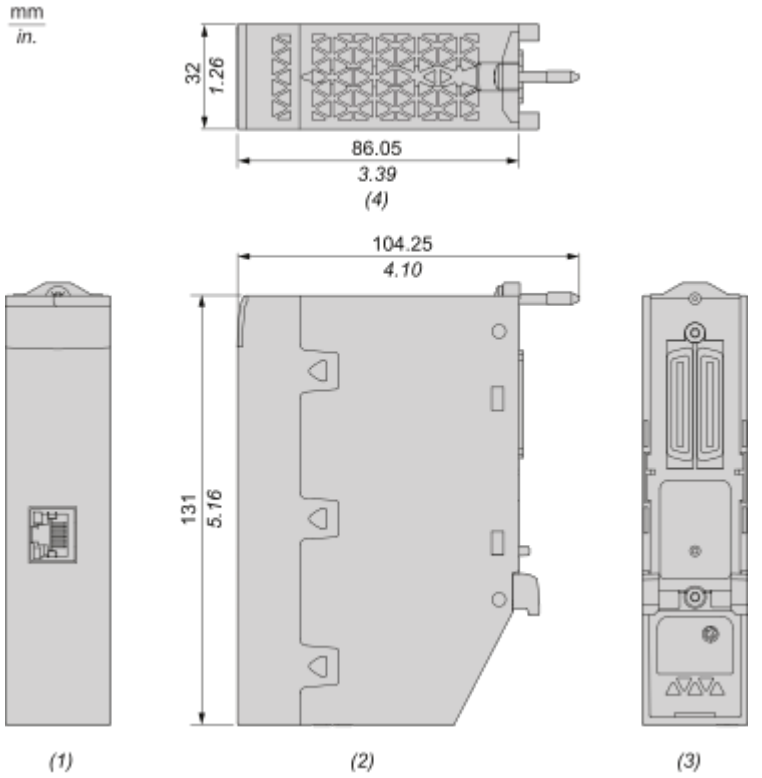
Use Again

Repack and remanufacture

Recyclability potential, in %	**32**
Circularity Profile	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






Schneider
Electric
Modicon
BMENUA0100
X80 OPC UA Module
DOM : XXXX





