

Product data sheet

Specifications



master module, Modicon X80, upto 62 devices on discrete IO, upto 31 devices on analog IO

BMXEIA0100

Main

Range Of Product	Modicon X80
Product Or Component Type	Master module
Actuator Sensor Interface Profile [As-I]	M4 master profile S7.3 slave profile S7.A.7 slave profile S7.A.A slave profile S7.A.8 slave profile S7.A.9 slave profile S6.0.X slave profile
Addressing	Standard and extended

Complementary

Cycle Time	5 ms for 31 10 ms for 62
Electrical Connection	1 male connector SUB-D, 3 pins
Number Of Server Device(S)	124 slave(s) for discrete inputs and outputs - standard 124 slave(s) for analog inputs and outputs - standard 496 slave(s) for discrete inputs and outputs - extended 124 slave(s) for analog inputs and outputs - extended
Maximum Cable Distance Between Devices	100 m 200 m line extension 300 m 2 repeaters 500 m 2 repeaters and the master at the middle
Local Signalling	1 LED (green) for module active (RUN) 1 LED (red) for module error (ERR) 1 LED (green) for displays the group of 31 slaves (A/B) 1 LED (red) for I/O module fault (I/O) 32 LEDs for diagnostics of the AS-Interface and each slave 1 LED (green) for ASI power 1 LED (red) for fault
Current Consumption	160 mA at 3.3 V DC
Module Format	Standard
Net Weight	0.34 kg

Environment

Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
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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

Product Certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22
Standards	EN/IEC 61131-2 EN/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 and type 2 EN/IEC 61850-3, location G EN/IEC 60079-0
Environmental Characteristic	Hazardous location
Environmental Characteristic	Hazardous location class I division 2
Ambient Air Temperature For Operation	0...60 °C
Ambient Air Temperature For Storage	-40...70 °C
Ip Degree Of Protection	IP20

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.4 cm
Package 1 Width	11.0 cm
Package 1 Length	12.7 cm
Package 1 Weight	210.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.2 kg

Contractual warranty

Warranty	18 months
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Sustainability



Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

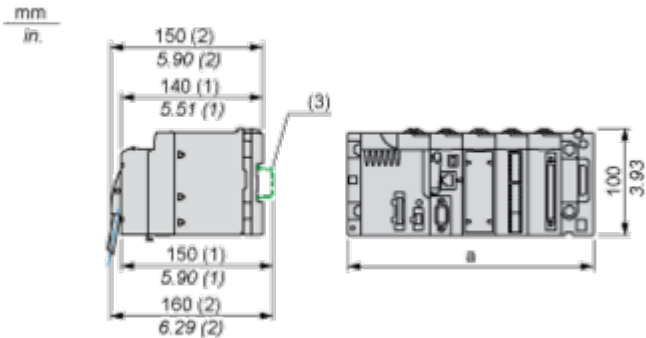
Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

Dimensions Drawings

Modules Mounted on Racks

Dimensions



- (1) With removable terminal block (cage, screw or spring).
(2) With FCN connector.
(3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

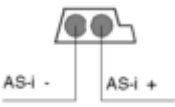

Connections and Schema

Connection to AS-Interface Bus

AS-Interface Bus Cables

AS-Interface bus cables carry the signals and supply the sensors and actuators connected to the bus with 30 V_{DC}.

Types of AS-Interface cables:

Cable Type	Specifications	Illustration
Flat, polarized AS-Interface ribbon cable	Color: yellow. Wire cross-section: 1.5 mm ² (AWG 15)	
Standard round cable	Wire cross-section: 1.5 mm ² (AWG 15) or 2.5 mm ² (AWG 13)	

Wire colors:

- AS-i - is Blue
- AS-i + is Brown

Recommended cable: Product reference H05VVF 2x1.5mm² (AWG 15) flat cable conforms to the DIN VDE 0281 standard.

Connector

A connector-cover set is used to connect the module to the AS-Interface bus. This connector must be linked to the cable of the AS-Interface bus and assembled according to the procedure described in the user guide.