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 server device(s) for discrete inputs and outputs - standard 124 server device(s) for analog inputs and outputs - standard 496 server device(s) for discrete inputs and outputs - extended 124 server device(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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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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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	**38**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
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

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.

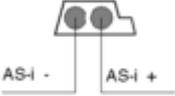| Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Product data sheet

BMXEIA0100

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)	AS-i - AS-i +
Standard round cable	Wire cross-section: 1.5 mm^2 (AWG 15) or 2.5 mm^2 (AWG 13)	AS-i - AS-i +

Wire colors:

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

Recommended cable: Product reference H05VVF 2x1.5mm^2 (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.

Image of product / Alternate images

Alternative