

processor, Modicon M340, max 1024 discrete, 256 analog IO, CANopen, Ethernet, for severe environment

BMXP3420302H

### Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Product specific application	For severe environments
Concept	CANopen Transparent Ready
Number of racks	4
Number of slots	11
Discrete I/O processor capacity	1024 I/O multi-rack configuration 704 I/O single-rack configuration
Analogue I/O processor capacity	256 I/O multi-rack configuration 66 I/O single-rack configuration
Number of application specific channel	36

### Complementary

Control channels	Programmable loops
Motion control	Independent axis CANopen
Integrated connection type	USB port at 12 Mbit/s CANopen master bus SUB-D 9, transmission mode: 2 twisted shielded pairs at 20 kbit/s1 Mbit/s Ethernet TCP/IP RJ45, transmission mode: 1 twisted pair at 10/100 Mbit/s
Communication module processor capacity	2 Ethernet communication module 4 AS-Interface module
embedded communication service	Network management (NMT) CANopen Process Data Object (PDO) CANopen Service Data Object (SDO) CANopen Special functions (SYNC, EMCY, TIME) CANopen Bandwidth management, Ethernet TCP/IP Data Editor, Ethernet TCP/IP Modbus TCP messaging, Ethernet TCP/IP Rack Viewer, Ethernet TCP/IP SNMP network administrator, Ethernet TCP/IP
Port Ethernet	10BASE-T/100BASE-TX
Transmission rate	1 Mbit/s 020 m 00.6 m 125 kbit/s 0500 m 010 m 20 kbit/s 02500 m 0300 m 250 kbit/s 0250 m 010 m 50 kbit/s 01000 m 0120 m 500 kbit/s 0100 m 010 m 800 kbit/s 040 m 06 m
Bus type	CANopen M20 DS 301 V4.02 devices linked by daisy-chaining or tap junctions CSMA/CA CANopen M20 DS 303-2 devices linked by daisy-chaining or tap junctions CSMA/CA CANopen M20 DS 405 devices linked by daisy-chaining or tap junctions CSMA/CA

Number of server device(s)	63 CANopen
Number of devices per segment	016 for <205 m (CANopen)
	032 for <185 m (CANopen)
	064 for <160 m (CANopen)
Memory description	Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols
	and data
	Internal RAM 4096 kB Internal RAM 256 kB data
	Internal RAM 3584 kB program constants and symbols
	Supplied memory card (BMXRMS008MP) activation of standard web server, class
	B10
Maximum size of object areas	256 kB unlocated internal data
-	32634 %Mi located internal bits
Default size of object areas	1024 %MWi internal words located internal data
-	256 %KWi constant words located internal data
	512 %Mi located internal bits
Application structure	1 periodic fast task
	No auxiliary task
	1 cyclic/periodic master task
	64 event tasks
Execution time per instruction	0.12 μs Boolean
	0.17 µs double-length words
	0.25 µs single-length words
	1.16 µs floating points
Number of instructions per ms	6.4 Kinst/ms 65 % Boolean + 35 % fixed arithmetic
	8.1 Kinst/ms 100 % Boolean
System overhead	0.13 ms for fast task
	0.7 ms for master task
Current consumption	135 mA at 24 V DC
Supply	Internal power supply via rack
Marking	CE
Status LED	1 LED (green) activity on Ethernet network (ETH ACT)
	1 LED (green) integrated machine/installation bus operational (CAN RUN)
	1 LED (green) processor running (RUN)
	1 LED (green) status of Ethernet network (ETH STS)
	1 LED (red) data rate (ETH 100) 1 LED (red) I/O module fault (I/O)
	1 LED (red) I/O module fault (I/O) 1 LED (red) integrated machine/installation bus fault (CAN ERR)
	1 LED (red) memory card fault (CARD ERR)
	1 LED (red) processor or system fault (ERR)
	1 LED (yellow) activity on Modbus (SER COM)
Net weight	0.215 kg
Environment	
Ambient air temperature for operation	-2570 °C
Relative humidity	1095 % without condensation
IP degree of protection	IP20
Protective treatment	Conformal coating
Directives	2014/35/EU - low voltage directive
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Protective treatment	Conformal coating	
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive	
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** Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 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	11.000 cm
Package 1 Length	12.000 cm
Package 1 Weight	259.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.245 kg

## **Contractual warranty**

Warranty 18 months



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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	162
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

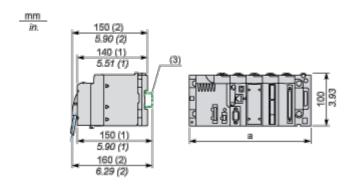
#### **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

#### **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