

# Product datasheet

Specifications



## processor module M340 - max 1024 discrete + 256 analog I/O - CANOpen

BMXP3420302

### Main

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

### Complementary

<b>Control channels</b>	Programmable loops
<b>Motion control</b>	Independent axis CANopen
<b>Integrated connection type</b>	USB port at 12 Mbit/s CANopen master bus SUB-D 9, transmission mode: 2 twisted shielded pairs at 20 kbit/s...1 Mbit/s Ethernet TCP/IP RJ45, transmission mode: 1 twisted pair at 10/100 Mbit/s
<b>Communication module processor capacity</b>	2 Ethernet communication module 4 AS-Interface module
<b>Embedded communication service</b>	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
<b>Port Ethernet</b>	10BASE-T/100BASE-TX
<b>Transmission rate</b>	1 Mbit/s 0...20 m 0...0.6 m 125 kbit/s 0...500 m 0...10 m 20 kbit/s 0...2500 m 0...300 m 250 kbit/s 0...250 m 0...10 m 50 kbit/s 0...1000 m 0...120 m 500 kbit/s 0...100 m 0...10 m 800 kbit/s 0...40 m 0...6 m
<b>Bus type</b>	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
<b>Number of slave</b>	63 CANopen

<b>Number of devices per segment</b>	0...16 for <205 m (CANopen) 0...32 for <185 m (CANopen) 0...64 for <160 m (CANopen)
<b>Memory description</b>	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
<b>Maximum size of object areas</b>	256 kB unlocated internal data 32634 %Mi located internal bits
<b>Default size of object areas</b>	1024 %MWi internal words located internal data 256 %KWi constant words located internal data 512 %Mi located internal bits
<b>Application structure</b>	1 cyclic/periodic master task 1 periodic fast task No auxiliary task 64 event tasks
<b>Execution time per instruction</b>	0.12 µs Boolean 0.17 µs double-length words 0.25 µs single-length words 1.16 µs floating points
<b>Number of instructions per ms</b>	6.4 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 8.1 Kinst/ms 100 % Boolean
<b>System overhead</b>	0.13 ms for fast task 0.7 ms for master task
<b>Current consumption</b>	135 mA at 24 V DC
<b>Supply</b>	Internal power supply via rack
<b>Marking</b>	CE
<b>Status LED</b>	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) 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)
<b>Net weight</b>	0.215 kg
<b>Environment</b>	
<b>Ambient air temperature for operation</b>	0...60 °C
<b>Relative humidity</b>	10...95 % without condensation
<b>IP degree of protection</b>	IP20
<b>Protective treatment</b>	TC
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Product certifications</b>	CE UL CSA RCM EAC Merchant Navy
<b>Standards</b>	EN 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
<b>Environmental characteristic</b>	Hazardous location class I division 2
<b>Packing Units</b>	
<b>Unit Type of Package 1</b>	PCE

Number of Units in Package 1	1
Package 1 Height	5.500 cm
Package 1 Width	11.000 cm
Package 1 Length	11.700 cm
Package 1 Weight	250.000 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	4.109 kg

## Offer Sustainability

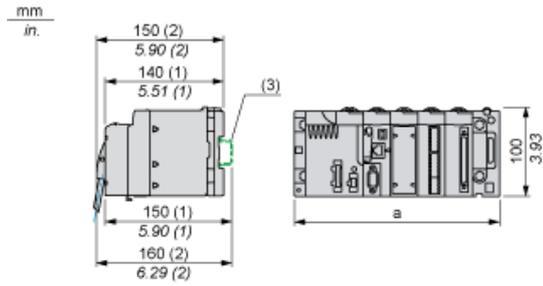
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	Yes
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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**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

**Recommended replacement(s)**