

# Product data sheet

Specifications



## Processor module, Modicon M340 automation platform, max 1024 discrete + 256 analog I/O

BMXP3420102

**Product availability : Stock - Normally stocked in distribution facility**

### Main

<b>Range of Product</b>	Modicon M340 automation platform
<b>Product or Component Type</b>	Processor module
<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
<b>Monitoring</b>	Diagnostic counters Modbus Event counters Modbus

### Complementary

<b>Control channels</b>	Programmable loops
<b>Motion control</b>	Independent axis CANopen
<b>Integrated connection type</b>	Non isolated serial link RJ45 character mode asynchronous in baseband, RS232C 2 twisted shielded pairs 0.3...19.2 kbit/s full duplex Non isolated serial link RJ45 character mode asynchronous in baseband, RS485 1 twisted shielded pair 0.3...19.2 kbit/s half duplex Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII asynchronous in baseband, RS232C 1 twisted shielded pair 0.3...19.2 kbit/s half duplex Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII asynchronous in baseband, RS485 1 twisted shielded pair 0.3...19.2 kbit/s half duplex USB port 12 Mbit/s CANopen master bus SUB-D 9 2 twisted shielded pairs 20 kbit/s...1 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
<b>Transmission rate</b>	1 Mbit/s 0.00...65.62 ft (0...20 m) 0.00...1.97 ft (0...0.6 m) 125 kbit/s 0.00...1640.42 ft (0...500 m) 0.00...32.81 ft (0...10 m) 20 kbit/s 0.00...8202.10 ft (0...2500 m) 0.00...984.25 ft (0...300 m) 250 kbit/s 0.00...820.21 ft (0...250 m) 0.00...32.81 ft (0...10 m) 50 kbit/s 0.00...3280.84 ft (0...1000 m) 0.00...393.70 ft (0...120 m) 500 kbit/s 0.00...328.08 ft (0...100 m) 0.00...32.81 ft (0...10 m) 800 kbit/s 0.00...131.23 ft (0...40 m) 0.00...19.69 ft (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...32 character mode) 0...32 Modbus) 0...16 672.57 ft (205 m) CANopen) 0...32 606.96 ft (185 m) CANopen) 0...64 524.93 ft (160 m) CANopen)
<b>Number of devices</b>	2 point-to-point character mode 2 point-to-point Modbus
<b>Bus length</b>	0.00...32.81 ft (0...10 m) serial link non isolated character mode segment 0.00...32.81 ft (0...10 m) serial link non isolated Modbus segment 0.00...3280.84 ft (0...1000 m) serial link isolated character mode segment 0.00...3280.84 ft (0...1000 m) serial link isolated Modbus segment 0.00...49.21 ft (0...15 m) character mode point-to-point 0.00...49.21 ft (0...15 m) Modbus point-to-point
<b>Maximum tap links length</b>	<49.21 ft (15 m) serial link non isolated character mode segment <49.21 ft (15 m) serial link non isolated Modbus segment <131.23 ft (40 m) serial link isolated character mode segment <131.23 ft (40 m) serial link isolated Modbus segment
<b>Number of addresses</b>	0...248 character mode 0...248 Modbus
<b>Requests</b>	1 K data bytes per request character mode 252 data bytes per RTU request Modbus 504 data bytes per ASCII request Modbus
<b>Control parameter</b>	One CRC on each frame (RTU) Modbus One LRC on each frame (ASCII) character mode One LRC on each frame (ASCII) Modbus
<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
<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>	No auxiliary task 1 cyclic/periodic master task 1 periodic fast 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 fast task 0.7 ms master task
<b>Current consumption</b>	90 mA 24 V DC
<b>Supply</b>	Internal power supply via rack
<b>Marking</b>	CE
<b>Status LED</b>	1 LED (Green) integrated machine/installation bus operational (CAN RUN) 1 LED (Green) processor running (RUN) 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>	0.46 lb(US) (0.21 kg)

## Environment

<b>Ambient air temperature for operation</b>	32...140 °F (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

<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 EN/IEC 61850-3
<b>Environmental characteristic</b>	Hazardous location class I division 2

## Ordering and shipping details

<b>Category</b>	18160-MODICON M340
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3595864024448
<b>Nbr. of units in pkg.</b>	1
<b>Package weight(Lbs)</b>	8.82 oz (250.0 g)
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Package 1 Height</b>	2.17 in (5.5 cm)
<b>Package 1 width</b>	4.33 in (11.0 cm)
<b>Package 1 Length</b>	4.57 in (11.6 cm)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	15
<b>Package 2 Weight</b>	8.82 lb(US) (4.0 kg)
<b>Package 2 Height</b>	5.91 in (15.0 cm)
<b>Package 2 width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>

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**WEEE**

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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**Contractual warranty**

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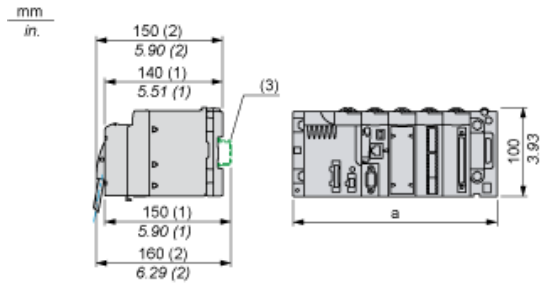
**Warranty**

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