

# Product datasheet

Specifications



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

BMXP342020

### Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Concept	Transparent Ready CANopen
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
Monitoring	Diagnostic counters Modbus Event counters Modbus

### Complementary

Control channels	Programmable loops
Integrated connection type	Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS232C, transmission mode: 2 twisted shielded pairs at 0.3...19.2 kbit/s full duplex Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchronous in baseband, RS232C, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.3...19.2 kbit/s half duplex USB port at 12 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	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
Number of devices per segment	0...32 (character mode) 0...32 (Modbus)
Number of devices	2 point-to-point character mode 2 point-to-point Modbus
Bus length	0...10 m serial link non isolated character mode segment 0...10 m serial link non isolated Modbus segment 0...1000 m serial link isolated character mode segment

	0...1000 m serial link isolated Modbus segment 0...15 m character mode point-to-point 0...15 m Modbus point-to-point
<b>Maximum tap links length</b>	<15 m serial link non isolated character mode segment <15 m serial link non isolated Modbus segment <40 m serial link isolated character mode segment <40 m serial link isolated Modbus segment
<b>Number of addresses</b>	0...248 for character mode 0...248 for 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 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>	95 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) 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) memory card fault (CARD ERR) 1 LED (red) processor or system fault (ERR) 1 LED (yellow) activity on Modbus (SER COM)
<b>Product weight</b>	0.205 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

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<b>Environmental characteristic</b>	Hazardous location class I division 2
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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
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<b>Package 1 Height</b>	5.5 cm
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<b>Package 1 Width</b>	11.0 cm
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<b>Package 1 Length</b>	11.5 cm
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<b>Package 1 Weight</b>	248.0 g
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<b>Unit Type of Package 2</b>	S02
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<b>Number of Units in Package 2</b>	15
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<b>Package 2 Height</b>	15.0 cm
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<b>Package 2 Width</b>	30.0 cm
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<b>Package 2 Length</b>	40.0 cm
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<b>Package 2 Weight</b>	3.98 kg
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## Offer Sustainability

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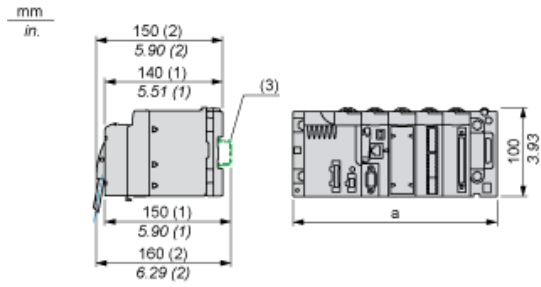
## Contractual warranty

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<b>Warranty</b>	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)**