

# Product data sheet

Specifications



## processor, Modicon M340, max 512 discrete, 128 analog IO, Modbus

BMXP341000

### Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Number of racks	2
Number of slots	11
Discrete I/O processor capacity	512 I/O single-rack configuration
Analogue I/O processor capacity	66 I/O single-rack configuration 128 I/O multi-rack configuration
Number of application specific channel	20
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
Communication module processor capacity	2 Ethernet communication module 2 AS-Interface module
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
Maximum tap links length	<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
Number of addresses	0...248 for character mode 0...248 for Modbus
Requests	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>	Internal RAM 2048 kB Internal RAM 128 kB data Internal RAM 1792 kB program constants and symbols Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data
<b>Maximum size of object areas</b>	128 kB unlocated internal data 16250 %Mi located internal bits 32464 %MWi internal words located internal data 32760 %KW constant words located internal data
<b>Default size of object areas</b>	128 %KW constant words located internal data 256 %Mi located internal bits 512 %MW internal words located internal data
<b>Application structure</b>	1 periodic fast task 32 event tasks 1 cyclic/periodic master task No auxiliary task
<b>Execution time per instruction</b>	0.18 µs Boolean 0.26 µs double-length words 0.38 µs single-length words 1.74 µs floating points
<b>Number of instructions per ms</b>	4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 5.4 Kinst/ms 100 % Boolean
<b>System overhead</b>	0.2 ms for fast task 1.05 ms for master task
<b>Current consumption</b>	72 mA at 24 V DC
<b>Supply</b>	Internal power supply via rack
<b>Marking</b>	CE
<b>Status LED</b>	1 LED (green) processor running (RUN) 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>Net weight</b>	0.2 kg

## Environment

<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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

Package 1 Height	5.500 cm
Package 1 Width	11.000 cm
Package 1 Length	12.000 cm
Package 1 Weight	240.000 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	3.900 kg

## Offer Sustainability

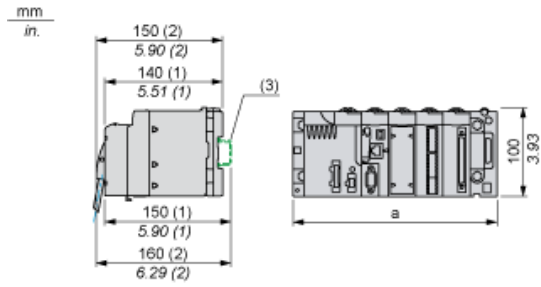
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	Yes
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
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## 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)**