# **Product data sheet**

Specifications

Green Premium<sup>™</sup>



## Processor, Modicon M340, max 1024 discrete + 256 analog I/O, Modbus, Ethernet

BMXP342020

#### Main

IVIAIII	
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 0.319.2 kbit/s full duplex Non isolated serial link RJ45 character mode, transmission mode: asynchronous in baseband, RS485, transmission mode: 1 twisted shielded pair at 0.319.2 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 0.319.2 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 0.319.2 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 0.319.2 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	t 032 (character mode) 032 (Modbus)	
Number of devices	2 point-to-point character mode 2 point-to-point Modbus	
Bus length	010 m serial link non isolated character mode segment 010 m serial link non isolated Modbus segment 01000 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	0248 for character mode 0248 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	
Control parameter	One CRC on each frame (RTU) Modbus One LRC on each frame (ASCII) character mode One LRC on each frame (ASCII) Modbus	
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 cyclic/periodic master task 1 periodic fast task No auxiliary 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	95 mA at 24 V DC	
Supply	Internal power supply via rack	
Marking	CE	
Status LED	<ol> <li>LED (green) activity on Ethernet network (ETH ACT)</li> <li>LED (green) processor running (RUN)</li> <li>LED (green) status of Ethernet network (ETH STS)</li> <li>LED (red) data rate (ETH 100)</li> <li>LED (red) I/O module fault (I/O)</li> <li>LED (red) memory card fault (CARD ERR)</li> <li>LED (red) processor or system fault (ERR)</li> <li>LED (yellow) activity on Modbus (SER COM)</li> </ol>	
Product weight	0.205 kg	
Environment		
Ambient air temperature for operation	060 °C	
Relative humidity	1095 % without condensation	
IP degree of protection	IP20	
Protective treatment	TC	
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility	
Product certifications	CE UL CSA RCM EAC Merchant Navy	
Standards	EN 61131-2 EN/IEC 61010-2-201	

Environmental characteristic	Hazardous location class I division 2
	EN/IEC 61850-3, location G
	EN/IEC 61000-6-5, interface type 1 and type 2
	IACS E10
	CSA C22.2 No 61010-2-201
	UL 61010-2-201

## **Packing Units**

5	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	11.0 cm
Package 1 Length	11.5 cm
Package 1 Weight	248.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.98 kg

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
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 known to the State of California to cause cancer and birth defects or other reproductive harm. For m information go to www.P65Warnings.ca.gov	

## **Contractual warranty**

Warranty

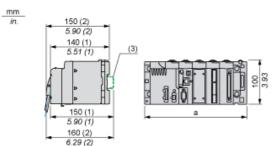
18 months

## **Product data sheet**

**Dimensions Drawings** 

### **Modules Mounted on Racks**

#### Dimensions



With removable terminal block (cage, screw or spring). With FCN connector. On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack. (1) (2) (3)

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)