



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

BMXP3420102

Range of product	Modicon M340 automation platform
Product or component type	Processor module
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		
Motion control	Independent axis CANopen		
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, 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 CANopen master bus SUB-D 9, transmission mode: 2 twisted shielded pairs at 20 kbit/s1 Mbit/s		
Communication module processor capacity	2 Ethernet communication module 4 AS-Interface module		
Embedded communication service	Network management (NMT) CANopen Process Data Object (PDO) CANopen Service Data Object (SDO) CANopen Special functions (SYNC, EMCY, TIME) CANopen		
Transmission rate	1 Mbit/s 020 m 00.6 m 125 kbit/s 0500 m 010 m 20 kbit/s 02500 m 0300 m 250 kbit/s 0250 m 010 m 50 kbit/s 01000 m 0120 m 500 kbit/s 0100 m 010 m 800 kbit/s 040 m 06 m		
Bus type	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		

Number of slave

63 CANopen

Number of devices per segment	032 (character mode) 032 (Modbus) 016 for <205 m (CANopen) 032 for <185 m (CANopen) 064 for <160 m (CANopen)		
Number of devices	2 point-to-point character mode 2 point-to-point Modbus		
Bus length	O10 m serial link non isolated character mode segment O10 m serial link non isolated Modbus segment O1000 m serial link isolated character mode segment O1000 m serial link isolated Modbus segment O15 m character mode point-to-point O15 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	K data bytes per request character mode Z52 data bytes per RTU request Modbus 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		
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	No auxiliary task 1 cyclic/periodic master task 1 periodic fast 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	90 mA at 24 V DC		
Supply	Internal power supply via rack		
Marking	CE		
Status LED	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)		
Product weight	0.21 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 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
Environmental characteristic	Hazardous location class I division 2
Packing Units	
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	11.6 cm
Package 1 Weight	250.0 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	4.0 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 is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

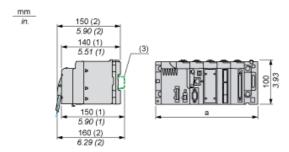
Product data sheet

BMXP3420102

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)