



processor module M340 - max 1024 discrete + 256 analog I/O -**CANOpen**

BMXP3420302

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Range of product	Modicon M340 automation platform
Product or component type	Processor module
Concept	CANopen Transparent Ready
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

Complementary	
Control channels	Programmable loops
Motion control	Independent axis CANopen
Integrated connection type	USB port at 12 Mbit/s CANopen master bus SUB-D 9, transmission mode: 2 twisted shielded pairs at 20 kbit/s1 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	Network management (NMT) CANopen Process Data Object (PDO) CANopen Service Data Object (SDO) CANopen Special functions (SYNC, EMCY, TIME) CANopen 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
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	016 for <205 m (CANopen) 032 for <185 m (CANopen) 064 for <160 m (CANopen)
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	135 mA at 24 V DC
Supply	Internal power supply via rack
Marking	CE
Status LED	1 LED (green) activity on Ethernet network (ETH ACT) 1 LED (green) integrated machine/installation bus operational (CAN RUN) 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) 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)
Net weight	0.215 kg
Environment	
Ambient air temperature for operation	060 °C
Relative humidity	1095 % without condensation
IP degree of protection	IP20
Protective treatment	
	TC
Directives	TC 2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Directives Product certifications	2014/35/EU - low voltage directive
	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility CE UL CSA RCM EAC
Product certifications	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility CE UL CSA RCM EAC Merchant Navy 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
Product certifications Standards	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility CE UL CSA RCM EAC Merchant Navy 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

Number of Units in Package 1	1
Package 1 Weight	246.0 g
Package 1 Height	5.5 cm
Package 1 width	11.0 cm
Package 1 Length	11.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	3.69 kg
Package 2 Height	15.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm
Offer Sustainability Sustainable offer status	Green Premium product
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
Contractual warranty	
Warranty	18 months

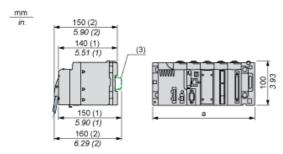
Product datasheet

BMXP3420302

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