Product data sheet

Specifications

processor, Modicon M340, max 1024 discrete, 256 analog IO, CANopen, Ethernet

BMXP3420302

Product availability: Stock - Normally stocked in distribution facility

Main

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 12 Mbit/s CANopen master bus SUB-D 9 2 twisted shielded pairs 20 kbit/s...1 Mbit/s Ethernet TCP/IP RJ45 1 twisted pair 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 0.00…65.62 ft (0…20 m) 0.00…1.97 ft (0…0.6 m) 125 kbit/s 0.00…1640.42 ft (0…500 m) 0.00…32.81 ft (0…10 m) 20 kbit/s 0.00…8202.10 ft (0…2500 m) 0.00…984.25 ft (0…300 m) 250 kbit/s 0.00…820.21 ft (0…250 m) 0.00…32.81 ft (0…10 m) 50 kbit/s 0.00…3280.84 ft (0…1000 m) 0.00…393.70 ft (0…120 m) 500 kbit/s 0.00…328.08 ft (0…100 m) 0.00…32.81 ft (0…10 m) 800 kbit/s 0.00…131.23 ft (0…40 m) 0.00…19.69 ft (0…6 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 Server Device(S)	63 CANopen

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Number Of Devices Per Segment	0…16 672.57 ft (205 m) CANopen)
	0…32 606.96 ft (185 m) CANopen)
	0…64 524.93 ft (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 fast task
	0.7 ms master task
Current Consumption	135 mA 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	0.47 lb(US) (0.215 kg)

Environment

Ambient Air Temperature For Operation	32…140 °F (0…60 °C)
Relative Humidity	10…95 % 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

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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

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
Gtin	3595864024455
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.61 in (11.700 cm)
Package 1 Weight	8.85 oz (251.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	9.06 lb(US) (4.109 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >
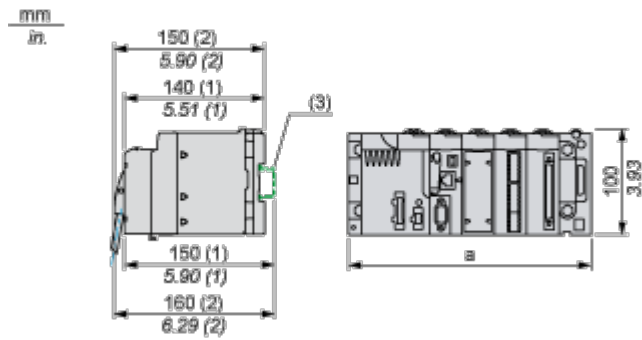
Guide to assess a product's sustainability >

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
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

Dimensions Drawings

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