Product data sheet

Specifications

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

BMXP342020

Main

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 0.3...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 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	0…32 (character mode) 0…32 (Modbus)
Number of devices	2 point-to-point character mode 2 point-to-point Modbus

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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
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	1 LED (green) activity on Ethernet network (ETH ACT)
	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) memory card fault (CARD ERR)
	1 LED (red) processor or system fault (ERR)
	1 LED (yellow) activity on Modbus (SER COM)
Net weight	0.205 kg

Environment

Ambient air temperature for operation	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
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	5.500 cm
Package 1 Width	11.000 cm
Package 1 Length	11.500 cm
Package 1 Weight	245.000 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	4.016 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	74.256 kg

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained ›

How we assess product sustainability ›

Environmental footprint

Total lifecycle Carbon footprint	**119**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

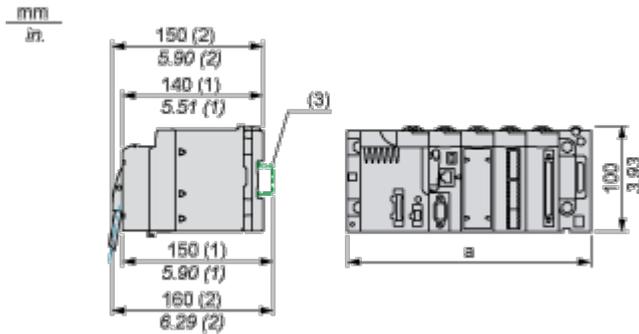|	
Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
SCIP Number	**33f7b2ef-9e3e-4edb-8c92-6fb4f272038c**
REACh Regulation	**REACh Declaration**
California proposition 65	**WARNING: 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**

Use Again

Repack and remanufacture

End of life manual availability	**End of Life Information**
Take-back	**No**

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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

Image of product / Alternate images

Alternative