



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

BMXP342000

Main

Range of product	Modicon M340 automation platform
Product or component type	Processor module
Number of racks	1
Number of slots	11
Discrete I/O processor capacity	1024 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

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, 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		
Communication module processor capacity	2 Ethernet communication module 4 AS-Interface module		
Number of devices per segment	032 (character mode) 032 (Modbus)		
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	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	Internal RAM 4096 kB Internal RAM 256 kB data Internal RAM 3584 kB program constants and symbols Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data
Maximum size of object areas	128 kB unlocated internal data 16250 %Mi located internal bits 32464 %MWi internal words located internal data 32760 %KWi constant words located internal data
Default size of object areas	128 %KWi constant words located internal data 256 %Mi located internal bits 512 %MWi internal words located internal data
Application structure	1 cyclic/periodic master task 1 periodic fast task No auxiliary task 32 event tasks
Execution time per instruction	0.18 µs Boolean 0.26 µs double-length words 0.38 µs single-length words 1.74 µs floating points
Number of instructions per ms	4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 5.4 Kinst/ms 100 % Boolean
System overhead	0.2 ms for fast task 1.05 ms for master task
Current consumption	72 mA at 24 V DC
Supply	Internal power supply via rack
Marking	CE
Status LED	1 LED (green) processor running (RUN) 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	0.2 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
ū	

5.5 cm
11.0 cm
11.5 cm
240.0 g
S02
15
15.0 cm
30.0 cm
40.0 cm
3.915 kg
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	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
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

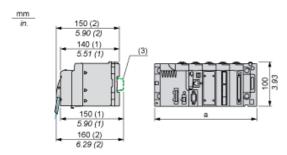
Product data sheet

BMXP342000

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)