

Schneider Electric BMXP342000

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

Control channels

Programmable loops

Integrated connection type

Non isolated serial link RJ45 character mode asynchronous in baseband, RS232C 2 twisted shielded pairs 0.3...19.2 kbit/s full duplex

Non isolated serial link RJ45 character mode asynchronous in baseband, RS485 1 twisted shielded pair 0.3...19.2 kbit/s half duplex

Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII asynchronous in baseband, RS232C 1 twisted shielded pair 0.3...19.2 kbit/s half duplex

Non isolated serial link RJ45, master/slave Modbus, RTU/ASCII asynchronous in baseband, RS485 1 twisted shielded pair 0.3...19.2 kbit/s half duplex

USB port 12 Mbit/s

Communication module processor capacity

2 Ethernet communication module

4 AS-Interface module

Number of devices per segment

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0...32 character mode)
0...32 Modbus)
Number of devices
2 point-to-point character mode
2 point-to-point Modbus
Bus length
0...32.8 ft (0...10 m) serial link non isolated character mode segment
0...32.8 ft (0...10 m) serial link non isolated Modbus segment
0...3280.8 ft (0...1000 m) serial link isolated character mode segment
0...3280.8 ft (0...1000 m) serial link isolated Modbus segment
0...49.2 ft (0...15 m) character mode point-to-point
0...49.2 ft (0...15 m) Modbus point-to-point
Maximum tap links length
<49.2 ft (15 m) serial link non isolated character mode segment
<49.2 ft (15 m) serial link non isolated Modbus segment
<131.2 ft (40 m) serial link isolated character mode segment
<131.2 ft (40 m) serial link isolated Modbus segment
Number of addresses
0...248 character mode
0...248 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

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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 μ s Boolean
0.26 μ s double-length words
0.38 μ s single-length words
1.74 μ s 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 fast task
1.05 ms master task
Current consumption
72 mA 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
0.4 lb(US) (0.2 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

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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

Ordering and shipping details

Category

US1PC3418160

Discount Schedule

PC34

GTIN

3595863999266

Returnability

Yes

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.17 in (5.5 cm)

Package 1 Width

4.33 in (11.0 cm)

Package 1 Length

4.53 in (11.5 cm)



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Package weight(Lbs)
8.5 oz (240.0 g)
Unit Type of Package 2
S02
Number of Units in Package 2
15
Package 2 Height
5.91 in (15.0 cm)
Package 2 Width
11.81 in (30.0 cm)
Package 2 Length
15.75 in (40.0 cm)
Package 2 Weight
8.631 lb(US) (3.915 kg)



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