

Schneider Electric BMXP3420102

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

BMXP3420102

Main

Range of Product

Modicon M340 automation platform

Product or Component Type

Processor module

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

Motion control

Independent axis CANopen

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

CANopen master bus SUB-D 9 2 twisted shielded pairs 20 kbit/s...1 Mbit/s

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www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com

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
Transmission rate
1 Mbit/s 0...65.6 ft (0...20 m) 0...2.0 ft (0...0.6 m)
125 kbit/s 0...1640.4 ft (0...500 m) 0...32.8 ft (0...10 m)
20 kbit/s 0...8202.10 ft (0...2500 m) 0...984.3 ft (0...300 m)
250 kbit/s 0...820.2 ft (0...250 m) 0...32.8 ft (0...10 m)
50 kbit/s 0...3280.8 ft (0...1000 m) 0...393.7 ft (0...120 m)
500 kbit/s 0...328.08 ft (0...100 m) 0...32.8 ft (0...10 m)
800 kbit/s 0...131.2 ft (0...40 m) 0...19.7 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
Number of devices per segment
0...32 character mode)
0...32 Modbus)
0...16 672.6 ft (205 m) CANopen)
0...32 607.0 ft (185 m) CANopen)
0...64 524.9 ft (160 m) CANopen)
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

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<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
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
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
No auxiliary task
1 cyclic/periodic master task
1 periodic fast 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

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Current consumption

90 mA 24 V DC

Supply

Internal power supply via rack

Marking

CE

Status LED

1 LED (Green) integrated machine/installation bus operational (CAN RUN)

1 LED (Green) processor running (RUN)

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

0.46 lb(US) (0.21 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

Standards

EN 61131-2

EN/IEC 61010-2-201

UL 61010-2-201

CSA C22.2 No 61010-2-201

IACS E10

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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

3595864024448

Returnability

No

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.13 in (5.400 cm)

Package 1 Width

4.53 in (11.500 cm)

Package 1 Length

4.88 in (12.400 cm)

Package weight(Lbs)

8.783 oz (249.000 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

8.946 lb(US) (4.058 kg)

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