

# Product data sheet

Specifications



## Processor module, Modicon M340 automation platform, max 1024 discrete + 256 analog I/O, Modbus

BMXP342000

**Product availability : Stock - Normally stocked in distribution facility**

### Main

|   |  |
|---|--|
| <b>Range of Product</b>                       | Modicon M340 automation platform                                     |
| <b>Product or Component Type</b>              | Processor module   |
| <b>Number of racks</b>                        | 1  |
| <b>Number of slots</b>                        | 11   |
| <b>Discrete I/O processor capacity</b>        | 1024 I/O single-rack configuration                                   |
| <b>Analogue I/O processor capacity</b>        | 256 I/O multi-rack configuration<br>66 I/O single-rack configuration |
| <b>Number of application specific channel</b> | 36   |
| <b>Monitoring</b>                             | Diagnostic counters Modbus<br>Event counters Modbus                  |

### Complementary

|  |   |
|--|---|
| <b>Control channels</b>                        | Programmable loops  |
| <b>Integrated connection type</b>              | Non isolated serial link RJ45 character mode asynchronous in baseband, RS232C 2 twisted shielded pairs 0.3...19.2 kbit/s full duplex<br>Non isolated serial link RJ45 character mode asynchronous in baseband, RS485 1 twisted shielded pair 0.3...19.2 kbit/s half duplex<br>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<br>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<br>USB port 12 Mbit/s |
| <b>Communication module processor capacity</b> | 2 Ethernet communication module<br>4 AS-Interface module  |
| <b>Number of devices per segment</b>           | 0...32(character mode)<br>0...32Modbus)   |
| <b>Number of devices</b>                       | 2 point-to-point character mode<br>2 point-to-point Modbus  |
| <b>Bus length</b>                              | 0.00...32.81 ft (0...10 m) serial link non isolated character mode segment<br>0.00...32.81 ft (0...10 m) serial link non isolated Modbus segment<br>0.00...3280.84 ft (0...1000 m) serial link isolated character mode segment<br>0.00...3280.84 ft (0...1000 m) serial link isolated Modbus segment<br>0.00...49.21 ft (0...15 m) character mode point-to-point<br>0.00...49.21 ft (0...15 m) Modbus point-to-point  |
| <b>Maximum tap links length</b>                | <49.21 ft (15 m) serial link non isolated character mode segment<br><49.21 ft (15 m) serial link non isolated Modbus segment<br><131.23 ft (40 m) serial link isolated character mode segment<br><131.23 ft (40 m) serial link isolated Modbus segment  |
| <b>Number of addresses</b>                     | 0...248 character mode<br>0...248 Modbus  |
| <b>Requests</b>                                | 1 K data bytes per request character mode   |

252 data bytes per RTU request Modbus  
504 data bytes per ASCII request Modbus

|                                       |   |
|---------------------------------------|---|
| <b>Control parameter</b>              | One CRC on each frame (RTU) Modbus<br>One LRC on each frame (ASCII) character mode<br>One LRC on each frame (ASCII) Modbus  |
| <b>Memory description</b>             | Internal RAM 4096 kB<br>Internal RAM 256 kB data<br>Internal RAM 3584 kB program constants and symbols<br>Supplied memory card (BMXRMS008MP) backup of programs, constants, symbols and data                          |
| <b>Maximum size of object areas</b>   | 128 kB unlocated internal data<br>16250 %Mi located internal bits<br>32464 %MWi internal words located internal data<br>32760 %KWi constant words located internal data   |
| <b>Default size of object areas</b>   | 128 %KWi constant words located internal data<br>256 %Mi located internal bits<br>512 %MWi internal words located internal data   |
| <b>Application structure</b>          | 1 cyclic/periodic master task<br>1 periodic fast task<br>No auxiliary task<br>32 event tasks  |
| <b>Execution time per instruction</b> | 0.18 µs Boolean<br>0.26 µs double-length words<br>0.38 µs single-length words<br>1.74 µs floating points  |
| <b>Number of instructions per ms</b>  | 4.2 Kinst/ms 65 % Boolean + 35 % fixed arithmetic<br>5.4 Kinst/ms 100 % Boolean   |
| <b>System overhead</b>                | 0.2 ms fast task<br>1.05 ms master task   |
| <b>Current consumption</b>            | 72 mA 24 V DC   |
| <b>Supply</b>                         | Internal power supply via rack  |
| <b>Marking</b>                        | CE  |
| <b>Status LED</b>                     | 1 LED (Green) processor running (RUN)<br>1 LED (Red) I/O module fault (I/O)<br>1 LED (Red) memory card fault (CARD ERR)<br>1 LED (Red) processor or system fault (ERR)<br>1 LED (Yellow) activity on Modbus (SER COM) |
| <b>Net Weight</b>                     | 0.44 lb(US) (0.2 kg)  |

## Environment

|  |  |
|--|--|
| <b>Ambient air temperature for operation</b> | 32...140 °F (0...60 °C)  |
| <b>Relative Humidity</b>                     | 10...95 % without condensation   |
| <b>IP Degree of Protection</b>               | IP20   |
| <b>Protective treatment</b>                  | TC   |
| <b>Directives</b>                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility   |
| <b>Product certifications</b>                | CE<br>UL<br>CSA<br>RCM<br>EAC<br>Merchant Navy   |
| <b>Standards</b>                             | EN 61131-2<br>EN/IEC 61010-2-201<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201<br>IACS E10<br>EN/IEC 61000-6-5<br>EN/IEC 61850-3 |
| <b>Environmental characteristic</b>          | Hazardous location class I division 2  |

## Ordering and shipping details

|                 |                    |
|-----------------|--------------------|
| <b>Category</b> | 18160-MODICON M340 |
|-----------------|--------------------|

|                       |                   |
|-----------------------|-------------------|
| Discount Schedule     | PC34              |
| GTIN                  | 3595863999266     |
| Nbr. of units in pkg. | 1                 |
| Package weight(Lbs)   | 8.47 oz (240.0 g) |
| Returnability         | Yes               |
| Country of origin     | FR                |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| 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)      |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 15                     |
| Package 2 Weight             | 8.63 lb(US) (3.915 kg) |
| 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)     |

## Offer Sustainability

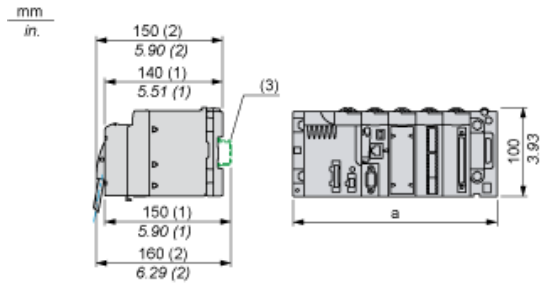
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>   |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

**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    |