# Product data sheet

Specifications

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

BMXP342020H

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

## Main

| | |
|---|---|
| **Range of Product** | Modicon M340 automation platform |
| **Product or Component Type** | Processor module |
| **Product Specific Application** | For severe environments |
| **Concept** | Transparent Ready<br>CANopen |
| **Number of racks** | 4 |
| **Number of slots** | 11 |
| **Discrete I/O processor capacity** | 1024 I/O multi-rack configuration<br>704 I/O single-rack configuration |
| **Analogue I/O processor capacity** | 256 I/O multi-rack configuration<br>66 I/O single-rack configuration |
| **Number of application specific channel** | 36 |
| **Monitoring** | Diagnostic counters Modbus<br>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<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<br>Ethernet TCP/IP RJ45 1 twisted pair 10/100 Mbit/s |
| **Communication module processor capacity** | 2 Ethernet communication module<br>4 AS-Interface module |
| **embedded communication service** | Bandwidth management, Ethernet TCP/IP<br>Data Editor, Ethernet TCP/IP<br>Modbus TCP messaging, Ethernet TCP/IP<br>Rack Viewer, Ethernet TCP/IP<br>SNMP network administrator, Ethernet TCP/IP |
| **Port Ethernet** | 10BASE-T/100BASE-TX |
| **Number of devices per segment** | 0…32character mode)<br>0…32Modbus) |
| **Number of devices** | 2 point-to-point character mode<br>2 point-to-point Modbus |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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| | |
|---|---|
| **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** | 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** | 64 event tasks |
| | 1 periodic fast task |
| | No auxiliary task |
| | 1 cyclic/periodic master task |
| **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 |
| **Current consumption** | 95 mA 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** | 0.452 lb(US) (0.205 kg) |

# Environment

| | |
|---|---|
| **Ambient Air Temperature for Operation** | -13…158 °F (-25…70 °C) |
| **Relative Humidity** | 10…95 % without condensation |
| **IP Degree of Protection** | IP20 |

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| Protective treatment | Conformal coating |
|---|---|
| Directives | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility<br>2014/34/EU - ATEX directive |
| Product certifications | CE<br>UL<br>CSA<br>RCM<br>EAC<br>Merchant Navy<br>ATEX zone 2/22<br>IECEx zone 2/22 |
| Standards | EN/IEC 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, interface type 1 and type 2<br>EN/IEC 61850-3, location G<br>EN/IEC 60079-0 |
| Environmental characteristic | Gas resistant class Gx ISA S71.04<br>Gas resistant class 3C4 IEC 60721-3-3<br>Dust resistant class 3S4 IEC 60721-3-3<br>Sand resistant class 3S4 IEC 60721-3-3<br>Salt resistant level 2 IEC 68252<br>Mold growth resistant class 3B2 IEC 60721-3-3<br>Fungal spore resistant class 3B2 IEC 60721-3-3<br>Hazardous location class I division 2 |

# Ordering and shipping details

| Category | US1PC3418160 |
|---|---|
| Discount Schedule | PC34 |
| GTIN | 3595864009766 |
| Returnability | Yes |
| Country of origin | FR |

# Packing Units

| Unit Type of Package 1 | PCE |
|---|---|
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 2.20 in (5.600 cm) |
| Package 1 Width | 4.61 in (11.700 cm) |
| Package 1 Length | 4.72 in (12.000 cm) |
| Package weight(Lbs) | 8.995 oz (255.000 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 | 8.891 lb(US) (4.033 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

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | **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)** |
| 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

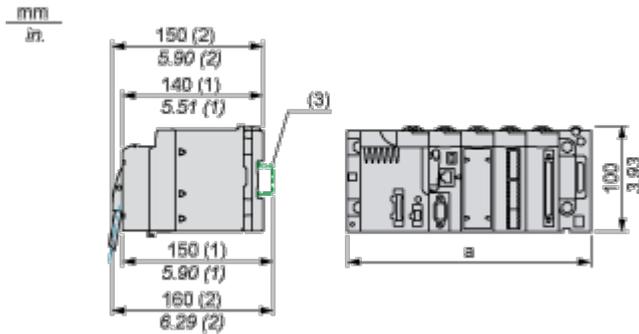| | |
|---|---|
| Circularity Profile | **End of Life Information** |
| Take-back | **No** |
| WEEE | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |

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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**