

Product datasheet

Specifications



processor module M580 - Level 4 - Remote

BMEP584040

Main

| | |
|---------------------------|------------------|
| Range of product | Modicon M580 |
| Product or component type | Processor module |

Complementary

| | |
|---|---|
| Number of racks | 8 |
| Local I/O processor capacity (discrete) | 4096 I/O |
| Local I/O processor capacity (analog) | 1024 I/O |
| Number of application specific channel (local rack) | 144 |
| Application specific I/O | Counter SSI encoder Motion control Accurate time stamping HART Serial link |
| Checks | Process control |
| Control channels | Programmable loops |
| Integrated connection type | 1 Ethernet TCP/IP for service port 2 Ethernet TCP/IP for device network USB type mini B |
| Number of remote I/O station | 16 - 2 rack(s) per remote drop |
| Number of distributed equipment | 64 |
| Communication module processor capacity | 16 AS-Interface module 4 Ethernet communication module |
| communication service | RIO scanner DIO scanner |
| Memory description | Expandable flash, 4 GB for data storage Integrated RAM, 10 kB for system memory Integrated RAM, 16 MB for program Integrated RAM, 2048 kB for data |
| Application structure | 2 auxiliary tasks 1 cyclic/periodic master task 1 periodic fast task 128 event tasks |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|--------------------------------------|---|
| Cybersecurity | Achilles certified DoS prevention IPSec SNMP logging Syslog protocol support Transport layer security Audit trail Embedded firewall Firmware signature Password protection Port hardening Secure communication (HTTPS) Security log |
| Number of instructions per ms | 30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 40 Kinst/ms 100 % Boolean |
| Current consumption | 295 mA at 24 V DC |
| MTBF reliability | 775000 H |
| marking | CE |

Environment

| | |
|--|---|
| Vibration resistance | 3 gn |
| Shock resistance | 30 gn |
| Ambient air temperature for operation | 0...60 °C |
| Ambient air temperature for storage | -40...85 °C |
| Operating altitude | 0...2000 m 2000...5000 m with derating factor |
| Relative humidity | 5...95 % at 55 °C without condensation |
| IP degree of protection | IP20 |
| Directives | 2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility |
| Product certifications | CE UL CSA RCM EAC Merchant Navy |
| Standards | IEC 61131-2 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 |
| Supply | Internal power supply via rack |
| Status LED | 1 LED (green) processor running (RUN) 1 LED (red) processor or system fault (ERR) 1 LED (red) I/O module fault (I/O) 1 LED (green) download in progress (DL) 1 LED (red) memory card or CPU flash fault (BACKUP) 1 LED (green/red) ETH MS (Ethernet port configuration status) 1 LED (green/red) Eth NS (Ethernet network status) |
| Net weight | 0.849 kg |

Packing Units

| | |
|-------------------------------------|-----|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

| | |
|-------------------------------------|-----------|
| Package 1 Height | 8.800 cm |
| Package 1 Width | 17.300 cm |
| Package 1 Length | 25.000 cm |
| Package 1 Weight | 875.000 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 5.630 kg |

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

RoHS Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope)

China RoHS Regulation [China RoHS declaration](#)

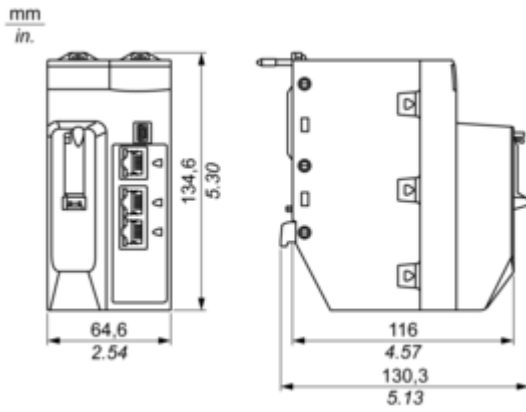
Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

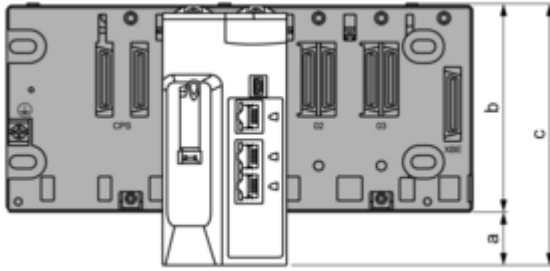
Circularity Profile [End of Life Information](#)

Dimensions Drawings

CPU Module Only

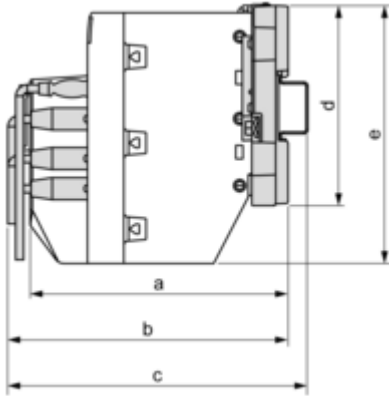


Modules Mounted on Racks



- a:** additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).
- b:** the height of the rack. For an X Bus rack, the height is 103.7 mm (4.083 in.); for an Ethernet rack, the height is 105.11 mm (4.138 in.).
- c:** the height of the main local rack, 134.6 mm (5.299 in.)

Modules and Cables Mounted in an Enclosure



a: enclosure depth: 135 mm (5.315 in.)

b: wiring + module depth: > 146 mm (5.748 in.)

c: wiring + module + DIN rail depth: > 156 mm (6.142 in.)

d: rack height: for an X Bus rack 103.7 mm (4.083 in.); for an Ethernet rack, 105.11 mm (4.138 in.)

e: module height: 134.6 mm (5.299 in.)

Image of product / Alternate images

Alternative

