

# Product datasheet

Specifications



## processor module M580 - Level 5 - Remote

BMEP585040

### Main

Range of product	Modicon M580
Product or component type	Processor module

### Complementary

Number of racks	8
Local I/O processor capacity (discrete)	5120 I/O
Local I/O processor capacity (analog)	1280 I/O
Number of application specific channel (local rack)	180
Application specific I/O	Counter SSI encoder Motion control Serial link HART Accurate time stamping
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	31 - 2 rack(s) per remote drop
Number of distributed equipment	64
Communication module processor capacity	16 AS-Interface module 6 Ethernet communication module
communication service	DIO scanner RIO scanner
Memory description	Expandable flash, 4 GB for data storage Integrated RAM, 10 kB for system memory Integrated RAM, 24 MB for program Integrated RAM, 4096 kB for data
Application structure	1 periodic fast task 128 event tasks 1 cyclic/periodic master task 2 auxiliary 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

<b>Cybersecurity</b>	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
<b>Number of instructions per ms</b>	40 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 50 Kinst/ms 100 % Boolean
<b>Current consumption</b>	300 mA at 24 V DC
<b>MTBF reliability</b>	775000 H
<b>marking</b>	CE

## Environment

<b>Vibration resistance</b>	3 gn
<b>Shock resistance</b>	30 gn
<b>Ambient air temperature for operation</b>	0...60 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	0...2000 m 2000...5000 m with derating factor
<b>Relative humidity</b>	5...95 % at 55 °C without condensation
<b>IP degree of protection</b>	IP20
<b>Directives</b>	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
<b>Product certifications</b>	CE UL CSA RCM EAC Merchant Navy
<b>Standards</b>	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
<b>Environmental characteristic</b>	Hazardous location class I division 2
<b>Supply</b>	Internal power supply via rack
<b>Status LED</b>	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) 1 LED (green) I/O values overridden by user (FORCED IO)
<b>Net weight</b>	0.849 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.8 cm
<b>Package 1 Width</b>	17.8 cm
<b>Package 1 Length</b>	25.2 cm
<b>Package 1 Weight</b>	879.0 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	5.714 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-CO<sub>2</sub> 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](#)

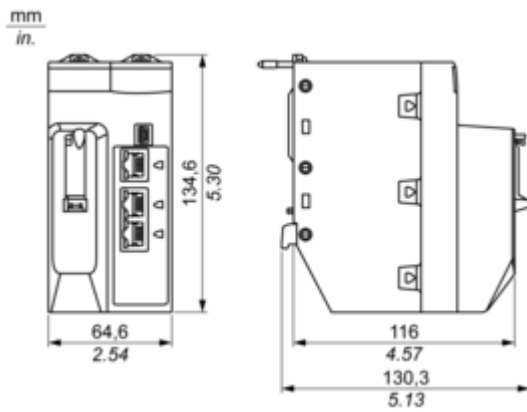
Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Dimensions Drawings

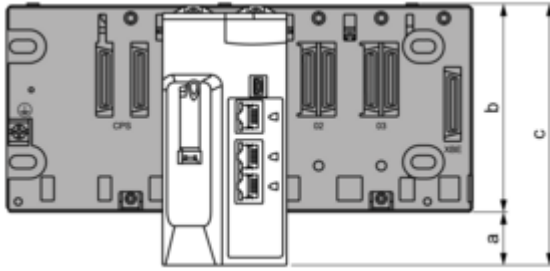
CPU Module Only

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**Modules Mounted on Racks**

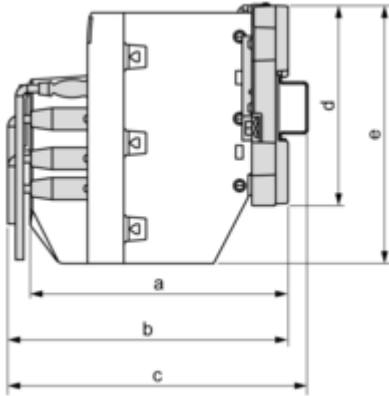
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- a:** additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).
- b:** the height of the rack. For an X Bus rack, the height 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**

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**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

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