

# Product data sheet

Specifications



redundant processor, Modicon M580, 64MB, 61 Ethernet devices, 31 remote IO racks of X80 and Quantum IO [TAA]

BMEH586040

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

## Main

Range of Product	Modicon M580
Product or Component Type	Redundant processor module

## Complementary

Number of racks	1
Application specific I/O	Counter SSI encoder Serial link HART Accurate time stamping Motion control
Checks	Process control
Control channels	Programmable loops
Integrated connection type	1 Ethernet TCP/IP service port 2 Ethernet TCP/IP device network USB type mini B 1 Ethernet HSBY port
Number of remote I/O station	31 - 2 X80 and Quantum drops
Number of distributed equipment	64
Communication module processor capacity	6 Ethernet communication module 16 AS-Interface module
Communication Service	DIO scanner RIO scanner
Memory description	Expandable flash, 4 GB data storage Integrated RAM, 10 kB system memory Integrated RAM, 64 MB program and data Integrated RAM, 4096 kB HSBY data
Application structure	1 cyclic/periodic master task 1 periodic fast task
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

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

<b>Number of instructions per ms</b>	40 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 50 Kinst/ms 100 % Boolean
<b>Current consumption</b>	365 mA 24 V DC
<b>MTBF reliability</b>	650000 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>	32...140 °F (0...60 °C)
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Operating altitude</b>	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor
<b>Relative humidity</b>	5...95 % 131 °F (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) peer processor running (REMOTE RUN) 1 LED (Green) processor ID set to A (A) 1 LED (Green) processor ID set to B (B) 1 LED (Green) processor acting as Primary (PRIM) 1 LED (Green) processor acting as Standby (STBY) 1 LED (Green) I/O values overridden by user (FORCED IO) 1 LED (Green) Hot standby link status (Hsby Diag)
<b>Net Weight</b>	1.872 lb(US) (0.849 kg)

## Ordering and shipping details

<b>Category</b>	US1PC3418161
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3606485440019
<b>Returnability</b>	Yes
<b>Country of origin</b>	FR

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.425 in (8.700 cm)
Package 1 Width	6.969 in (17.700 cm)
Package 1 Length	9.843 in (25.000 cm)
Package weight(Lbs)	30.970 oz (878.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	12.414 lb(US) (5.631 kg)



## 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) 289

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 4eb70ab0-978b-4773-a441-0cc20d6144a1

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](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

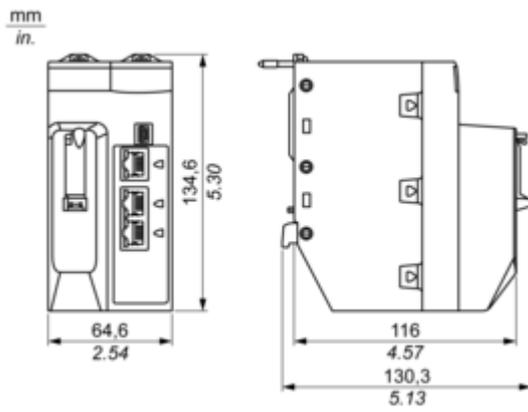
Circularity Profile [End of Life Information](#)

Take-back No

Dimensions Drawings

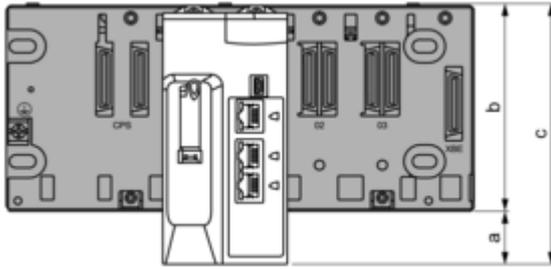
CPU Module Only

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**Modules Mounted on Racks**

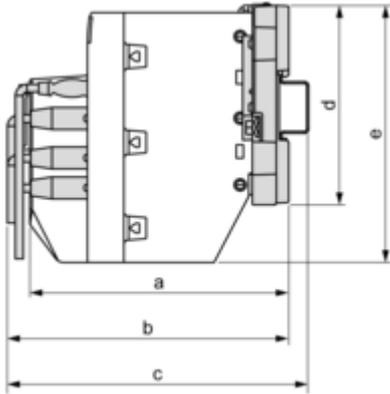
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- a:** additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).
- b:** the height of the rack. For an X Bus rack, the height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