

# Product data sheet

Specifications



## Standalone processor, Modicon M580, 16MB, 61 Ethernet devices, 16 Remote I/O racks (X80 & Quantum)

BMEP584040

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

### 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 service port 2 Ethernet TCP/IP device network USB type mini B
Number of remote I/O station	16 - 2 remote drop
Number of distributed equipment	64
Communication module processor capacity	8 AS-Interface module 4 Ethernet communication module
Communication Service	RIO scanner DIO scanner
Memory description	Expandable flash, 4 GB data storage Integrated RAM, 10 kB system memory Integrated RAM, 16 MB program Integrated RAM, 2048 kB data
Application structure	2 auxiliary tasks 1 cyclic/periodic master task 1 periodic fast task 128 event tasks
Number of instructions per ms	30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 40 Kinst/ms 100 % Boolean

<b>Current consumption</b>	295 mA 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>	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>	EN 61131-2 EN/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)
<b>Net Weight</b>	1.87 lb(US) (0.849 kg)

## Ordering and shipping details

<b>Category</b>	18161-MODICON M580 CONTROLLERS HSBY
<b>Discount Schedule</b>	PC34
<b>GTIN</b>	3595864174464
<b>Returnability</b>	Yes
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3.46 in (8.800 cm)
<b>Package 1 Width</b>	6.81 in (17.300 cm)
<b>Package 1 Length</b>	9.84 in (25.000 cm)
<b>Package 1 Weight</b>	30.83 oz (874.000 g)

<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	6
<b>Package 2 Height</b>	11.81 in (30.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	12.41 lb(US) (5.630 kg)

## Offer Sustainability

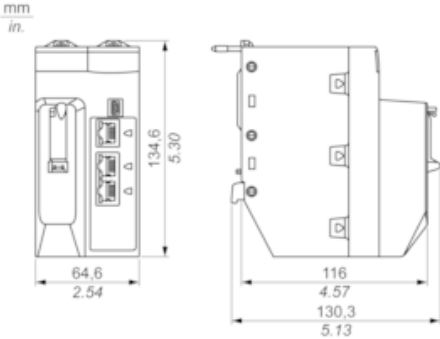
<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go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

**Product data sheet**  
Dimensions Drawings

**BMEP584040**

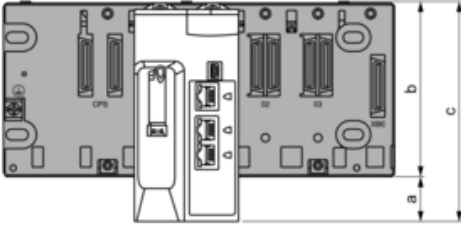
**CPU Module Only**

---



**Modules Mounted on Racks**

---



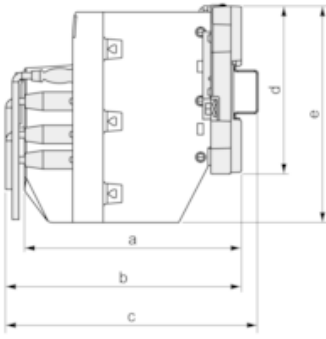
**a:** additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).

**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.)

**Recommended replacement(s)**