Specifications



standalone processor, Modicon M580, 16MB, 125 Ethernet devices, 8 local IO racks of 4096 digital, 1024 analog

BMEP584020

#### Main

Range Of Product	Modicon M580
Product Or Component Type	Processor module

# Complementary

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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	HART Accurate time stamping SSI encoder Serial link Motion control Counter
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 Distributed Equipment	128
Communication Module Processor Capacity	8 AS-Interface module 4 Ethernet communication module
Communication Service	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	1 cyclic/periodic master task 2 auxiliary tasks 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 communiction (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	060 °C
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	02000 m 20005000 m with derating factor
Relative Humidity	595 % 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	<ol> <li>LED (green) processor running (RUN)</li> <li>LED (red) processor or system fault (ERR)</li> <li>LED (red) I/O module fault (I/O)</li> <li>LED (green) download in progress (DL)</li> <li>LED (red) memory card or CPU flash fault (BACKUP)</li> <li>LED (green/red) ETH MS (Ethernet port configuration status)</li> <li>LED (green/red) Eth NS (Ethernet network status)</li> </ol>
Net Weight	0.849 kg

# **Packing Units**

Unit Type Of Package 1

Number Of Units In Package 1

PCE

1

Package 1 Height	9.000 cm
Package 1 Width	18.000 cm
Package 1 Length	25.000 cm
Package 1 Weight	874.000 g
Unit Type Of Package 2	\$03
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	5.729 kg

# Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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



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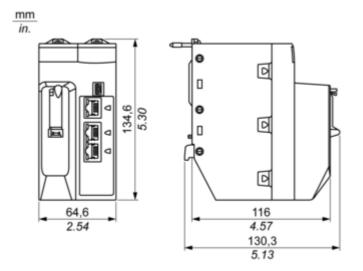
Rohs Exemption Information Yes

# **Certifications & Standards**

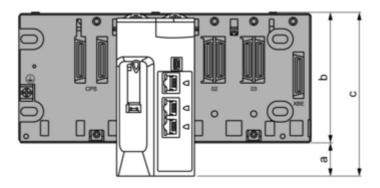
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
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

### **Dimensions Drawings**

#### CPU Module Only



#### Modules Mounted on Racks

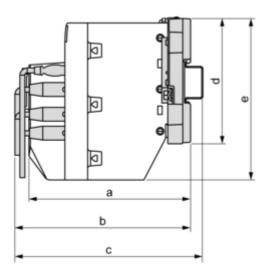


**a:** additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).

**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.)