Product datasheet

Specifications





standalone processor, Modicon M580, 64MB, 61 Ethernet devices, 31 remote IO racks of X80 and Quantum, conformal coating

BMEP586040C

Main

Range Of Product	Modicon M580
Product Or Component Type	Processor module
Impregnation Material	Conformal coated

Complementary

Complementary	
Number Of Racks	8
Local I/O Processor Capacity (Discrete)	6144 I/O
Local I/O Processor Capacity (Analog)	1536 I/O
Number Of Application Specific Channel (Local Rack)	216
Application Specific I/O	Serial link HART Motion control Accurate time stamping SSI encoder 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 Remote I/O Station	31 - 2 rack(s) per remote drop
Number Of Distributed Equipment	64
Communication Module Processor Capacity	6 Ethernet communication module 24 AS-Interface 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, 64 MB for program and data
Application Structure	2 auxiliary tasks 1 periodic fast task 128 event tasks 1 cyclic/periodic master task
Number Of Instructions Per Ms	40 Kinst/ms 100 % Boolean 60 Kinst/ms 65 % Boolean + 35 % fixed arithmetic
Current Consumption	300 mA at 24 V DC
Mtbf Reliability	775000 H
Marking	CE

Environment

3 gn
30 gn
-2560 °C
-4085 °C
02000 m 20005000 m with derating factor
595 % at 55 °C without condensation
IP20
2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive
CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22
EN/IEC 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 EN/IEC 60079-0
Gas resistant class Gx conforming to ISA S71.04 Gas resistant class 3C4 conforming to IEC 60721-3-3 Dust resistant class 3S4 conforming to IEC 60721-3-3 Sand resistant class 3S4 conforming to IEC 60721-3-3 Salt resistant level 2 conforming to IEC 68252 Mold growth resistant class 3B2 conforming to IEC 60721-3-3 Fungal spore resistant class 3B2 conforming to IEC 60721-3-3 Hazardous location class I division 2
Conformal coating
Internal power supply via rack
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 (green/red) ETH MS (Ethernet port configuration status) 1 LED (green/red) ETH MS (Ethernet network status) 1 LED (green/red) Eth NS (Ethernet network status) 1 LED (green) I/O values overrided by user (FORCED IO)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.000 cm
Package 1 Width	17.900 cm
Package 1 Length	25.200 cm
Package 1 Weight	885.000 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	5.790 kg

Sustainability Screen Premium

Green PremiumTM 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-CO₂ products.

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

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



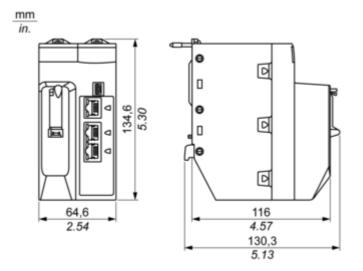
Rohs Exemption Information

Certifications & Standards

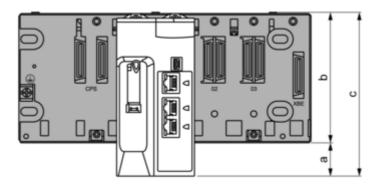
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection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

Dimensions Drawings

CPU Module Only



Modules Mounted on Racks

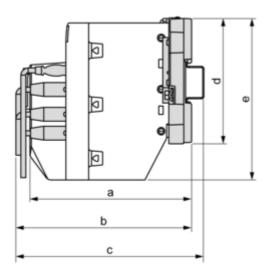


a: additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).

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.)