

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

BMEH586040C

Main

Range of product	Modicon M580	
Product or component type	Redundant processor module	
Impregnation material	Conformal coated	

Complementary

Number of racks	1	
Application specific I/O	Serial link	
	Accurate time stamping	
	SSI encoder	
	Motion control	
	HART	
	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	
	1 Ethernet for HSBY port	
Number of remote I/O station	31 - 2 rack(s) per X80 and Quantum drops	
Number of distributed equipment	64	
Communication module	6 Ethernet communication module	
processor capacity	16 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	
	Integrated RAM, 4096 kB for HSBY data	
Application structure	1 periodic fast task	
	1 cyclic/periodic master task	
Number of instructions per ms	40 Kinst/ms 100 % Boolean	
·	50 Kinst/ms 65 % Boolean + 35 % fixed arithmetic	
Current consumption	365 mA at 24 V DC	
MTBF reliability	650000 H	
Marking	CE	

Environment

Vibration resistance	3 gn
Shock resistance	30 gn

Ambient air temperature for	25 60 %	
operation	-2560 °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 2014/34/EU - ATEX directive	
Product certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22	
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 IEC 60079-0	
Environmental characteristic	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 608252 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	
Protective treatment	Conformal coating	
Supply	Internal power supply via rack	
Status LED	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 overrided by user (FORCED IO) 1 LED (green) Hot standby link status (Hsby Diag)	
Net weight	0.849 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.800 cm
Package 1 Width	17.800 cm
Package 1 Length	25.200 cm
Package 1 Weight	891.000 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	5.878 kg



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.eq.CO2 per CR, Total Life cycle)	290
Environmental Disclosure	Product Environmental Profile

Use Better

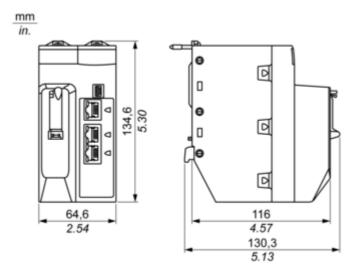
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	4eb70ab0-978b-4773-a441-0cc20d6144a1
REACh Regulation	REACh Declaration

Use Again

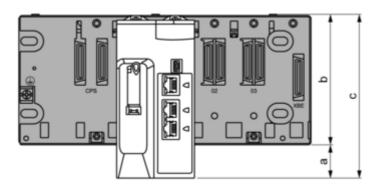
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

CPU Module Only



Modules Mounted on Racks

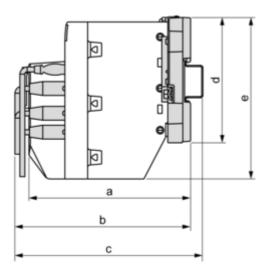


a: additional space below the rack to accommodate the height of the CPU. For an X Bus rack, the value is 30.9 mm (1.217 in.); for an Ethernet rack, the value is 29.49 mm (1.161 in.).

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.)