Product data sheet Characteristics

BMEP582040

processor module M580 - Level 2 - Remote





Main

Range of product	Modicon M580
Product or component type	Processor module

Complementary

Number of racks	4
Local I/O processor capacity (discrete)	2048 I/O
Local I/O processor capacity (analog)	512 I/O
Number of application specific channel (local rack)	72
Application specific I/O	Serial link Counter Accurate time stamping HART Motion control SSI encoder
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	8 - 2 rack(s) per remote drop
Number of distributed equipment	64
Communication module processor capacity	2 Ethernet communication module 8 AS-Interface module
Communication service	DIO scanner RIO scanner
Memory description	Expandable flash, 4 GB for data storage Integrated RAM, 10 kB for system memory Integrated RAM, 8 MB for program process Integrated RAM, 768 kB for data process Integrated RAM, 2 MB for program safety Integrated RAM, 512 KB for data safety
Application structure	64 event tasks 2 auxiliary tasks 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 communiction (HTTPS)	
	Security log	
Number of instructions per ms	7.5 Kinst/ms 65 % Boolean + 35 % fixed arithmetic	
·	10 Kinst/ms 100 % Boolean	
Current consumption	270 mA at 24 V DC	
MTBF reliability	775000 H	
Marking	CE	
9		

Environment

Environment	
Vibration resistance	3 gn
Shock resistance	15 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[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant
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	Safety Corrosion resistance Salt mist Dust resistant Hazardous location class I division 2
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) processor in safety mode (SRUN) 1 LED (green) processor in maintenance mode (SMOD) 1 LED (red) I/O values overrided by user (FORCED IO)
Net weight	0.849 kg

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	9.200 cm	
Package 1 Width	17.800 cm	
Package 1 Length	25.200 cm	
Package 1 Weight	874.000 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	5.634 kg	

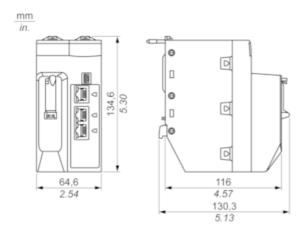
Offer Sustainability

Green Premium product
REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope)
Yes
China RoHS Declaration
€Yes
Product Environmental Profile
End Of Life Information
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

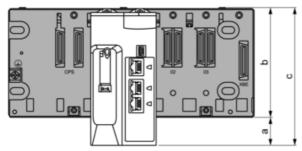
Product data sheet Dimensions Drawings

BMEP582040

CPU Module Only



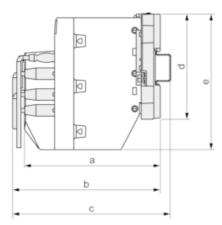
Modules Mounted on Racks



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.)