



## 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	Counter Motion control SSI encoder Accurate time stamping Serial link HART
Checks	Process control Safety control
Control channels	Programmable loops
Integrated connection type	1 Ethernet TCP/IP service port 2 Ethernet TCP/IP device network USB type mini B 1 Ethernet HSBY port
Number of remote I/O station	16.0 - 2 X80 and Quantum drops
Number of distributed equipment	61.0
Communication module processor capacity	4.0 Ethernet communication module 16.0 AS-Interface module
Communication Service	DIO scanner RIO scanner
Memory description	Expandable flash, 4 GB data storage Integrated RAM, 10 kB system memory Integrated RAM, 16 MB program process Integrated RAM, 16 MB data process Integrated RAM, 4 MB program safety Integrated RAM, 1024 kB data safety
Application structure	1 master task 1 periodic fast task 1 periodic safe task
Number of instructions per ms	40 Kinst/ms 100 % Boolean 30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic
Current consumption	295 mA 24 V DC

MTBF reliability	638000 H
Marking	CE
<b>Environment</b>	
Vibration resistance	3 gn
Shock resistance	15 gn
Ambient air temperature for operation	-13...140 °F (-25...60 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Operating altitude	0...6561.68 ft (0...2000 m) 2000...5000 m with derating factor
Relative humidity	5...95 % 131 °F (55 °C) without condensation
IP Degree of Protection	IP20
Directives	2014/30/EU - electromagnetic compatibility 2006/42/EC - machinery 2014/34/EU - ATEX directive
Product certifications	CE UL CSA RCM EAC Merchant Navy ATEX zone 2/22 IECEx zone 2/22 TÜV
Standards	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 EN/IEC 61850-3 EN/IEC 60079-0
Environmental characteristic	Hazardous location class I division 2 Gas resistant class Gx ISA S71.04 Gas resistant class 3C4 IEC 60721-3-3 Dust resistant class 3S4 IEC 60721-3-3 Sand resistant class 3S4 IEC 60721-3-3 Salt resistant level 2 IEC 68252 Mold growth resistant class 3B2 IEC 60721-3-3 Fungal spore resistant class 3B2 IEC 60721-3-3
Protective treatment	Conformal coating
Safety level	SIL 3 IEC 61508 SIL 3 IEC 61511 SILCL 3 IEC 62061 SILCL 3 ISO 13849-1 category 4 SIL 4 EN 50126 SIL 4 EN 50128 SIL 4 EN 50129
Supply	Internal power supply via rack
Status LED	Processor running (RUN) 1 LED Green Processor or system fault (ERR) 1 LED Red I/O module fault (I/O) 1 LED Red Download in progress (DL) 1 LED Green Memory card or CPU flash fault (BACKUP) 1 LED Red ETH MS (Ethernet port configuration status) 1 LED green/red Eth NS (Ethernet network status) 1 LED green/red 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 overridden by user (FORCED IO) 1 LED Red Processor in safety mode (SRUN) 1 LED Green Processor in maintenance mode (SMOD) 1 LED Green Hot standby link status (Hsby Diag) 1 LED Green
Net Weight	1.87 Lb(US) (0.849 kg)

## Ordering and shipping details

GTIN	3606489562526
Nbr. of units in pkg.	1
Package weight(Lbs)	31.64 Oz (897 g)

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.54 In (9 cm)
Package 1 width	7.09 In (18 cm)
Package 1 Length	9.84 In (25 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	6
Package 2 Weight	12.79 Lb(US) (5.8 kg)
Package 2 Height	11.81 In (30 cm)
Package 2 width	11.81 In (30 cm)
Package 2 Length	15.75 In (40 cm)

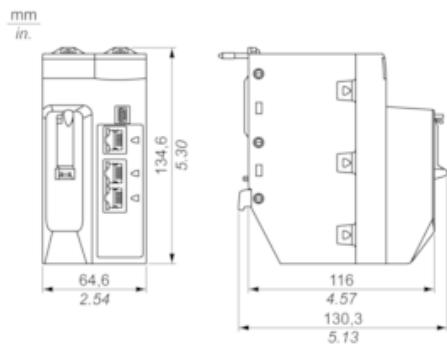
## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<input checked="" type="checkbox"/> <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <input checked="" type="checkbox"/> <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<input checked="" type="checkbox"/> Yes
China RoHS Regulation	<input checked="" type="checkbox"/> <a href="#">China RoHS Declaration</a>
Circularity Profile	<input checked="" type="checkbox"/> <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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### CPU Module Only

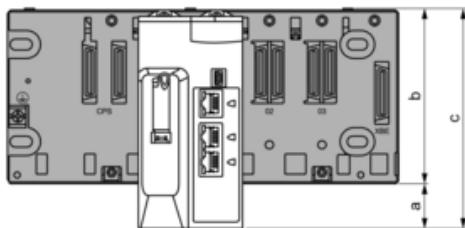
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### Modules Mounted on Racks

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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.).

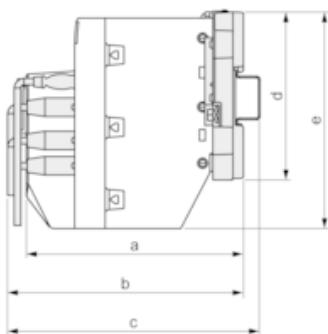
b: the height of the rack. For an X Bus rack, the height is 103.7 mm (4.083 in.); for an Ethernet rack, the height is 105.11 mm (4.138 in.).

c: the height of the main local rack, 134.6 mm (5.299 in.)

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### Modules and Cables Mounted in an Enclosure

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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.)

Product Life Status :	Commercialised
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