

## 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 HART Counter Motion control Accurate time stamping 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 1 Ethernet for HSBY port
Number of remote I/O station	8 - 2 rack(s) per X80 remote drop
Number of distributed equipment	64
Communication module processor capacity	2 Ethernet communication module 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, 8 MB for program Integrated RAM, 768 kB for data
Application structure	1 periodic fast task 1 cyclic/periodic master task
Number of instructions per ms	30 Kinst/ms 65 % Boolean + 35 % fixed arithmetic 40 Kinst/ms 100 % Boolean
Current consumption	270 mA at 24 V DC
MTBF reliability	650000 H
Marking	CE

## Environment

Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...2000 m 2000...5000 m with derating factor

Relative humidity	5...95 % 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[RETURN]UL[RETURN]CSA[RETURN]RCM[RETURN]EAC[RETURN]Merchant Navy[RETURN]ATEX zone 2/22[RETURN]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 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
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 overridden 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	8.900 cm
Package 1 Width	18.000 cm
Package 1 Length	25.000 cm
Package 1 Weight	886.000 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	5.820 kg

## Offer Sustainability

Packaging without single use plastic	No
Packaging made with recycled cardboard	No
SCIP Number	4eb70ab0-978b-4773-a441-0cc20d6144a1
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	 Yes

China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<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
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>
Take-back	No
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	232