

Product datasheet

Specifications



Unity processor Modicon Quantum - 1024 kB - 266 MHz

140CPU65160S

-  **Discontinued on:** 31 December 2021
-  **To be end-of-service on:** 31 December 2029

 To be discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Unity safety processor
Software designation	Unity Pro XL safety
Backup type	Lithium battery 990XCP98000

Complementary

Clock frequency	266 MHz
Number of slots	2 4 6 16 10 3
Number of racks	1 - local rack(s)
Number of remote I/O station	31 - 1 rack(s) per remote
Discrete I/O number	Unlimited (13 slots max) - local - forbidden in Hot Standby application 31744 inputs, 31744 outputs - remote
Analogue I/O number	Unlimited (26 slots max) - local - forbidden in Hot Standby application 1984 inputs, 1984 outputs - remote
Number of optional modules	6 Ethernet 140NOE77111
Maximum number of connections	1 Modbus Plus - local 1 Modbus (RS232/485 Modbus/ASCII) 1 USB - local 6 Ethernet TCP/IP - local
Integrated connection type	1 Ethernet TCP/IP local 1 Modbus local 1 Modbus Plus local 1 USB local
Checks	Process control
Memory description	Expandable 7168 kB - program with PCMCIA card Expandable 8 MB - file storage with PCMCIA card Internal RAM 1024 kB
Switch function	Key switch memory port on/off
Application structure	1 cyclic/periodic master task
Execution time per instruction	0.09...0.12 µs on word 0.105...0.15 µs Boolean 0.96...1.02 µs on fixed-point arithmetic

Execution time for 1 Kinstruction	5.03 65 % Boolean and 35 % numerical 5.14 100 % Boolean
System overhead	1.5 ms for master task
Bus current requirement	2760 mA
Maximum supply current	90 A 60 °C lithium battery 60 µA lithium battery
[Us] rated supply voltage	3 V DC lithium battery
Battery capacity	1200 Ah
Battery life	10 year(s)
Display type	LCD 2 lines of 16 characters
Local signalling	1 LED (green) for Ethernet activity (COM) 1 LED (red) for Ethernet collision (ERR)
Electrical connection	1 female connector SUB-D 9 for connecting to the Modbus Plus network 1 female connector USB type B for connecting to PC 2 connectors RJ45 for connecting Modbus bus
Marking	CE

Environment

Product certifications	CSA C-Tick TÜV Rheinland (SIL3) CSA HazLoc
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	18.5 cm
Package 1 Length	32.5 cm
Package 1 Weight	1.39 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	8.34 kg

Offer Sustainability

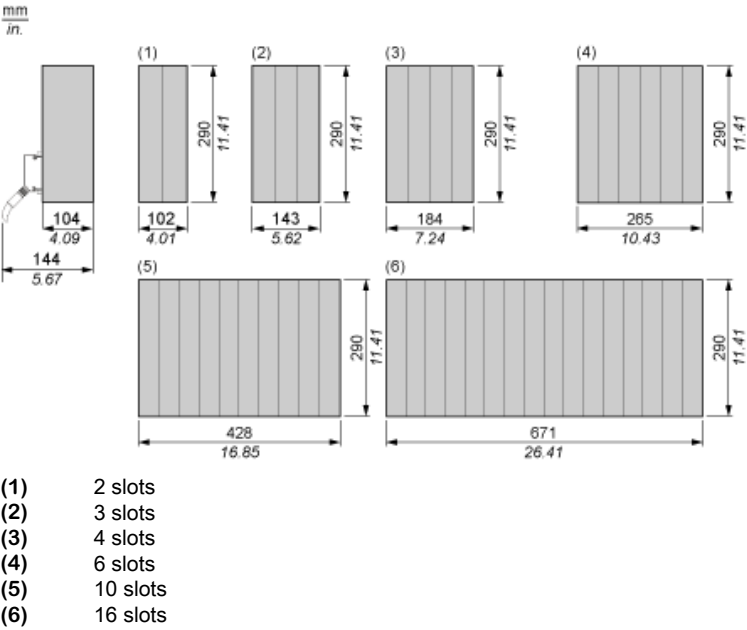
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Racks for Modules Mounting

Dimensions of Modules and Racks



Recommended replacement(s)

140CPU65160S is replaced by the following group of products:

1x		Processor module, Modicon M580, Safety SIL3, Level 2, Remote BMEP582040S
1x		Processor module, Modicon M580, Safety SIL3, Level 4, Remote BMEP584040S