Product data sheet

Specifications

Unity Hot Standby processor Modicon Quantum - 1024 kB - 266 MHz

140CPU67160S

⚠ **Discontinued on:** 31 December 2021

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

⚠ **Discontinued - Service only**

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	10 2 16 6 3 4
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 1 Ethernet TCP/IP - local 6 USB - local
Integrated connection type	1 Modbus local 1 Modbus Plus local 1 USB local 1 Ethernet TCP/IP Hot Standby 140NOE77111 local
Checks	Process control Hot standby
Memory description	Expandable 7168 kB - program with PCMCIA card Expandable 8 MB - file storage with PCMCIA card Internal RAM 1024 kB - 512 kB for data
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	2500 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	TÜV Rheinland (SIL3) C-Tick CSA

Packing Units

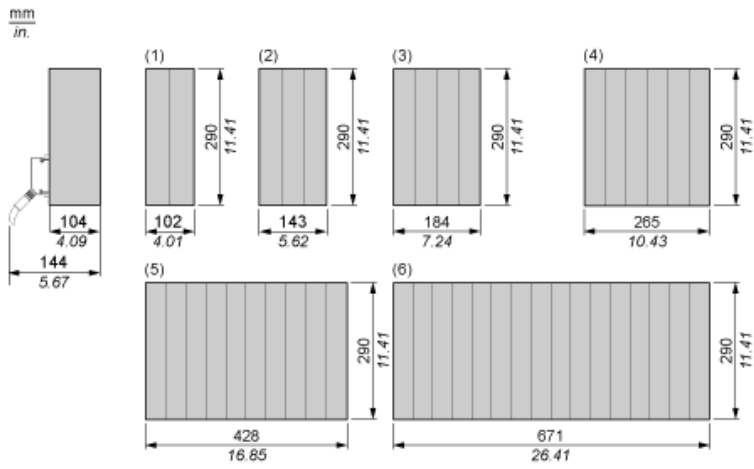|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.391 kg
Package 1 Height	11 cm
Package 1 width	19 cm
Package 1 Length	32.5 cm
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Weight	2.922 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
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

(1)	2 slots
(2)	3 slots
(3)	4 slots
(4)	6 slots
(5)	10 slots
(6)	16 slots

Recommended replacement(s)

140CPU67160S is replaced by the following product range:

Modicon M580

PAC and Safety PLC with built-in Ethernet for process, high availability & safety solutions

Products: 46