

Product data sheet

Specifications



Unity Hot Standby processor with multimode Ethernet - 1024 kB - 266 MHz

140CPU67160

⚠ Discontinued on: 31 December 2018

⚠ To be end-of-service on: 31 December 2026

⚠ Discontinued - Service only

Main

Range of product	Modicon Quantum automation platform
Product or component type	Unity processor

Complementary

Mode of transmission	Multi mode
Clock frequency	266 MHz
Number of slots	2 10 16 4 6
Number of racks	2 - local rack(s)
Number of distributed I/O station	63 station(s) - 1 rack(s) - 3 Modbus Plus network(s)
Number of remote I/O station	31 - 2 rack(s) per S908 remote I/O 31 - 2 rack(s) per ethernet Quantum remote I/O 16 - 2 rack(s) per ethernet X80 remote I/O
Discrete I/O number	31744 inputs, 31744 outputs - remote 8000 inputs, 8000 outputs - distributed - per network Modbus Plus Unlimited (31 drops of 28 slots max) - ethernet remote I/O 0 - local - forbidden in Hot Standby application
Analogue I/O number	500 inputs, 500 outputs - distributed - per network Modbus Plus Unlimited (31 drops of 28 slots max) - ethernet remote I/O 1984 inputs, 1984 outputs - remote 0 - local - forbidden in Hot Standby application
Application specific I/O	High-speed interrupt inputs Serial link Accurate time stamping Counter
Communication service	Ethernet router
Number of optional modules	6 (Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)
Maximum number of connections	1 USB 2 AS-Interface - distributed 4 AS-Interface - remote 6 Ethernet TCP/IP - local 6 Modbus Plus - local 6 Profibus DP - local 1 Modbus (RS232/485 Modbus/ASCII)
Integrated connection type	1 Modbus Plus with 1 Modbus with 1 USB with 1 optic fibre with Hot Standby

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 periodic fast task - forbidden in Hot Standby application 128 I/O interrupt tasks - forbidden in Hot Standby application 128 interrupt tasks - forbidden in Hot Standby application 32 timer interrupt tasks - forbidden in Hot Standby application 4 auxiliary tasks - forbidden in Hot Standby application 1 cyclic/periodic master task -
Number of instructions per ms	10.28 Kinst/ms 100 % Boolean 10.07 Kinst/ms 65 % Boolean and 35 % numerical
System overhead	0.2 ms for fast task 1 ms for master task
Bus current requirement	2500 mA
Local signalling	1 LED (green) for Ethernet activity (COM) 1 LED (red) for Ethernet collision
Electrical connection	1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network 1 connector, connector type: RJ45 for connecting Modbus bus 1 connector, connector type: MT-RJ (multimode fiber optic) for interconnecting primary and secondary PLCs up to 4 km

Environment

Product certifications	CE UL Misc (Marine) CSA GOST
Standards	HazLoc

Packing Units

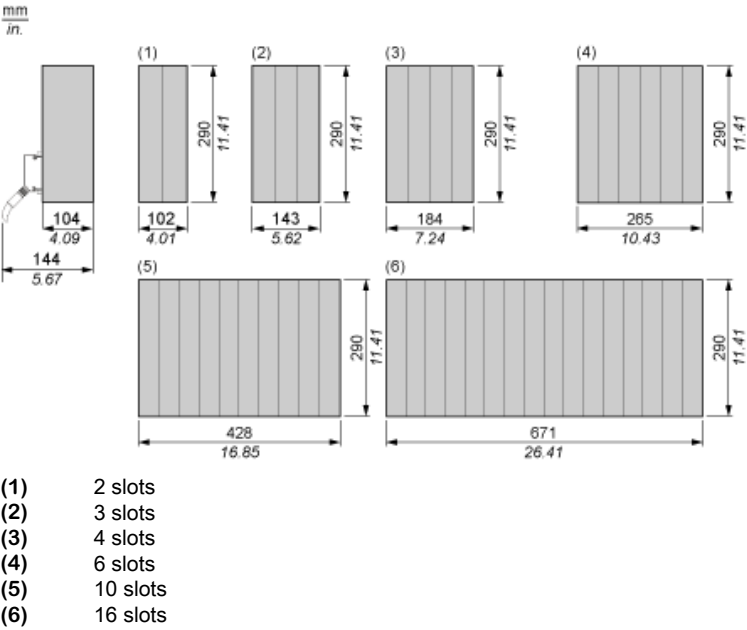
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	19.0 cm
Package 1 Length	32.5 cm
Package 1 Weight	1.447 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	9.629 kg

Contractual warranty

Warranty	18 months
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Racks for Modules Mounting

Dimensions of Modules and Racks



Recommended replacement(s)

140CPU67160 is replaced by:

1x



Redundant processor, Modicon M580, 16MB, 61 Ethernet devices, 16 Remote I/O racks (X80 & Quantum I/O)
BMEH584040