

Product data sheet

Specifications



Unity processor Modicon Quantum - 1024 kB - 266MHz

140CPU65160

! 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

Clock frequency 266 MHz

Number of slots
16
6
4
10
2

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 (26 slots max) - local
Unlimited (31 drops of 28 slots max) - ethernet remote I/O

Analogue I/O number
500 inputs, 500 outputs - distributed - per network Modbus Plus
1984 inputs, 1984 outputs - S908 remote I/O
Unlimited (26 slots max) - local
Unlimited (31 drops of 28 slots max) - ethernet remote I/O

Application specific I/O
Accurate time stamping
High-speed interrupt inputs
Serial link
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 Ethernet TCP/IP with
1 Modbus with
1 USB with

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 - 1 periodic fast task - 128 I/O interrupt tasks - 128 interrupt tasks - 32 timer interrupt tasks - 4 auxiliary tasks -
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	2760 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 Ethernet network 1 connector, connector type: RJ45 for connecting Modbus bus

Environment

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

Packing Units

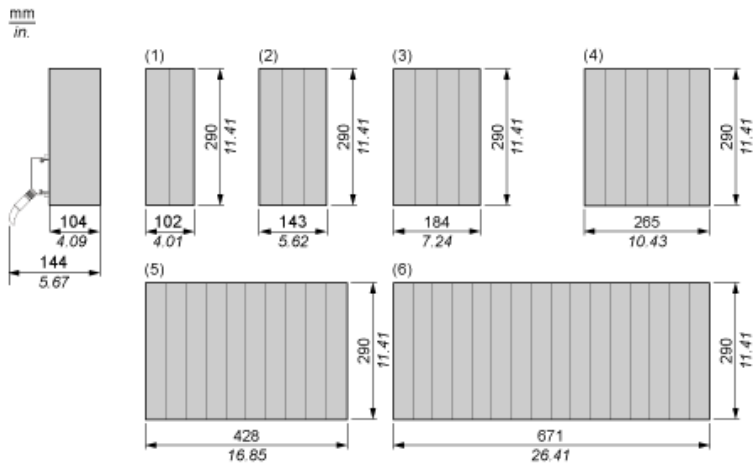
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	18.5 cm
Package 1 Length	32.5 cm
Package 1 Weight	1.46 kg
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	8.76 kg

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)

140CPU65160 is replaced by:

1x



Standalone processor, Modicon M580, 8MB, 61 Ethernet devices, 8 Remote I/O racks (X80)

BMEP582040