

Product data sheet

Specifications



Unity processor Modicon Quantum - 768 kB - 166 MHz

140CPU65150

! 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	166 MHz
Number of slots	10 16 6 4 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 Serial link High-speed interrupt inputs 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Memory description	Expandable 7168 kB - program with PCMCIA card Expandable 8 MB - file storage with PCMCIA card Internal RAM 768 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	2160 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 CE CSA GOST
Standards	HazLoc

Packing Units

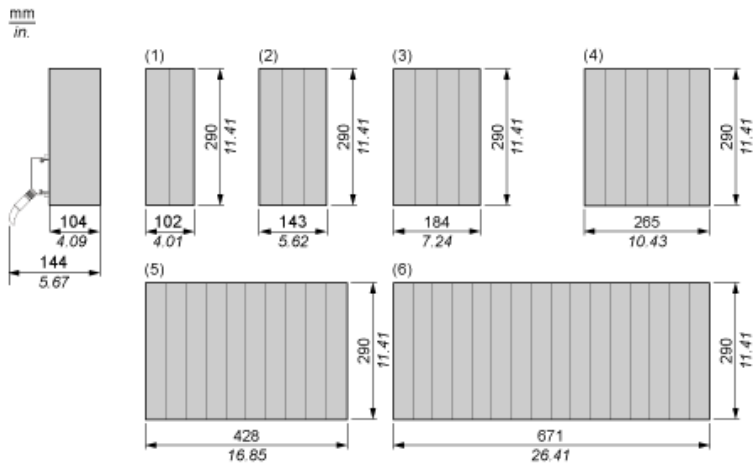
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.434 kg
Package 1 Height	11 cm
Package 1 width	18.5 cm
Package 1 Length	32.5 cm
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Weight	9 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

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)

140CPU65150 is replaced by:



1x

Processor module, Modicon M580, Level 2, Remote
BMPE582040