

Unity processor Modicon Quantum -1056 kB - 66 MHz

140CPU43412U

Discontinued on: 31 December 2018

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

Main

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Range of product	Modicon Quantum automation platform
Product or component type	Unity processor
Complementary	
Clock frequency	66 MHz
Number of slots	2 4 10 16 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 0 - 0 rack(s) per ethernet 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
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
Application specific I/O	Serial link Counter High-speed interrupt inputs Accurate time stamping
Number of optional modules	6 (Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)
Maximum number of connections	2 AS-Interface - distributed 2 Modbus (RS232/485 Modbus/ASCII) 4 AS-Interface - remote 6 Ethernet TCP/IP - local 6 Modbus Plus - local 6 Profibus DP - local
Integrated connection type	1 Modbus Plus with 2 Modbus with
Checks	Process control
Memory description	Internal RAM 1056 kB
Switch function	Key switch memory start/stop memory protection Slide switch communication port : ASCII/RTU/Memory
Application structure	1 cyclic/periodic master task - 1 periodic fast task -

	16 timer interrupt tasks -
	64 I/O interrupt tasks -
	64 interrupt tasks - No auxiliary task -
Execution time per instruction	0.10.27 μs floating points
	0.10.27 µs on fixed-point arithmetic 0.120.585 µs Boolean
	0.120.585 μs on word
Number of instructions per ms	1.86 Kinst/ms 100 % Boolean 2.49 Kinst/ms 65 % Boolean and 35 % numerical
System overhead	0.2 ms for fast task
oyotom ovomouu	1 ms for master task
Bus current requirement	1800 mA
Local signalling	1 LED (green) for communications are active on the Modbus Plus port (Modbus Plus)
,	1 LED (green) for communications are active on the Modbus port (Modbus)
	1 LED (green) for CPU has been started and is solving logic (RUN) 1 LED (green) for CPU has passed the power-up diagnostic tests (READY)
	1 LED (orange) for write-protected memory (memory port)
	1 LED (red) for battery needs replacing or is not present (BAT LOW)
	1 LED (red) for communications error on the Modbus Plus port (ERROR A)
Electrical connection	1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network 2 female connectors, connector type: SUB-D 9 for connecting to the Modbus bus
Environment	
Product certifications	CSA
	CE UL
Okamala mela	
Standards	HazLoc
Dooking Units	
Packing Units Unit Type of Package 1	PCE
Number of Units in Package 1	1
Doolings 4 Minimb	607.0 g
Package 1 Weight	
	4.5 cm
Package 1 Height	
Package 1 Height Package 1 width	4.5 cm
Package 1 Height Package 1 width Package 1 Length	4.5 cm 15.5 cm
Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2	4.5 cm 15.5 cm 31 cm
Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2	4.5 cm 15.5 cm 31 cm S03
Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight	4.5 cm 15.5 cm 31 cm S03
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width	4.5 cm 15.5 cm 31 cm S03 7 4.249 kg

Contractual warranty Warranty 18 months

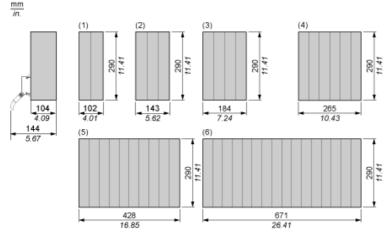
Product data sheet

140CPU43412U

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks



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

Recommended replacement(s)

140CPU43412U is replaced by:

1x



Processor module, Modicon M580, Level 1, Distributed

BMEP581020