



## Commercial status

Discontinued: 31 December 2018

ⓘ Restricted Sales for Services

### Main

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 -

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

	1 periodic fast task - 16 timer interrupt tasks - 64 I/O interrupt tasks - 64 interrupt tasks - No auxiliary task -
Execution time per instruction	0.1...0.27 $\mu$ s floating points 0.1...0.27 $\mu$ s on fixed-point arithmetic 0.12...0.585 $\mu$ s Boolean 0.12...0.585 $\mu$ s 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 1 ms for master task
Bus current requirement	1800 mA
Local signalling	1 LED (green)communications are active on the Modbus Plus port (Modbus Plus): 1 LED (green)communications are active on the Modbus port (Modbus): 1 LED (green)CPU has been started and is solving logic (RUN): 1 LED (green)CPU has passed the power-up diagnostic tests (READY): 1 LED (orange)write-protected memory (memory port): 1 LED (red)battery needs replacing or is not present (BAT LOW): 1 LED (red)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
Standards	HazLoc

## Contractual warranty

Warranty	18 months
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## 140CPU43412U is replaced by:



### Standard environment BM5P581020

processor module M580 - Level 1 - Distributed

Qty 1

Reason for Substitution: End of life | Substitution date: 31 December 2018