Product data sheet

Specifications

Unity processor, Modicon Quantum automation platform, Modbus Plus, 548kB RAM, 66MHz

140CPU31110

⚠ **Discontinued on:** Dec 31, 2018

⚠ **To be end-of-service on:** Dec 31, 2026

⚠ **Discontinued - Service only**

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon Quantum automation platform
Product or Component Type	Unity processor

Complementary

Clock frequency	66 MHz
Number of slots	16 4 10 2 6
Number of racks	2 - local
Number of distributed I/O station	63 1 3 Modbus Plus
Number of remote I/O station	31 - 2 S908 remote I/O 0 - 0 ethernet remote I/O
Discrete I/O number	Unlimited (27 slots max) - local 31744 inputs, 31744 outputs - remote 8000 inputs, 8000 outputs - distributed - per network Modbus Plus
Analogue I/O number	Unlimited (27 slots max) - local 500 inputs, 500 outputs - distributed - per network Modbus Plus 1984 inputs,1984 outputs - S908 remote I/O
Application specific I/O	High-speed interrupt inputs Counter Accurate time stamping Serial link
Number of optional modules	2 Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)
Maximum number of connections	1 USB 2 AS-Interface - distributed 2 Ethernet TCP/IP - local 2 Modbus Plus - local 2 Modbus RS232/485 Modbus/ASCII) 2 Profibus DP - local 4 AS-Interface - remote
Integrated connection type	1 Modbus Plus 2 Modbus
Checks	Process control
Memory description	Internal RAM 548 kB
Switch Function	Slide switch communication port : ASCII/RTU/Memory Slide switch memory port/off

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	0.1...0.27 µs floating points 0.1...0.27 µs on fixed-point arithmetic 0.12...0.585 µs Boolean 0.12...0.585 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 fast task 1 ms master task
Bus current requirement	1800 mA
Local signalling	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 (green) for write-protected memory (memory port) 1 LED (orange) for battery needs replacing or is not present (BAT LOW) 1 LED (red) for communications error on the Modbus Plus port (ERROR A) 1 LED (red)
Electrical connection	1 female connector SUB-D 9 for connecting to the Modbus Plus network 2 female connectors SUB-D 9 for connecting to the Modbus bus

Environment

Product Certifications	CSA CE UL
Standards	HazLoc

Ordering and shipping details

Category	US1PC2118150
Discount Schedule	PC21
GTIN	3595862067300
Returnability	No
Country of origin	FR

Packing Units

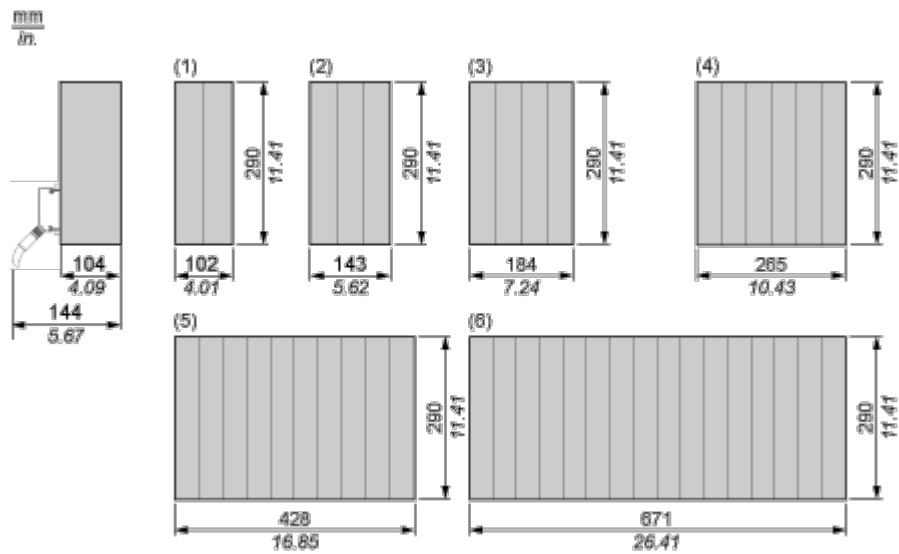| Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.97 in (5.0 cm)
Package 1 Width	6.69 in (17.0 cm)
Package 1 Length	12.20 in (31.0 cm)
Package 1 Weight	25.4 oz (720.0 g)

Contractual warranty

Warranty	18 months

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Dimensions Drawings

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