

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	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 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

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.0 in (5.0 cm)
Package 1 Width	6.7 in (17.0 cm)
Package 1 Length	12.2 in (31.0 cm)
Package weight(Lbs)	25.4 oz (720.0 g)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension

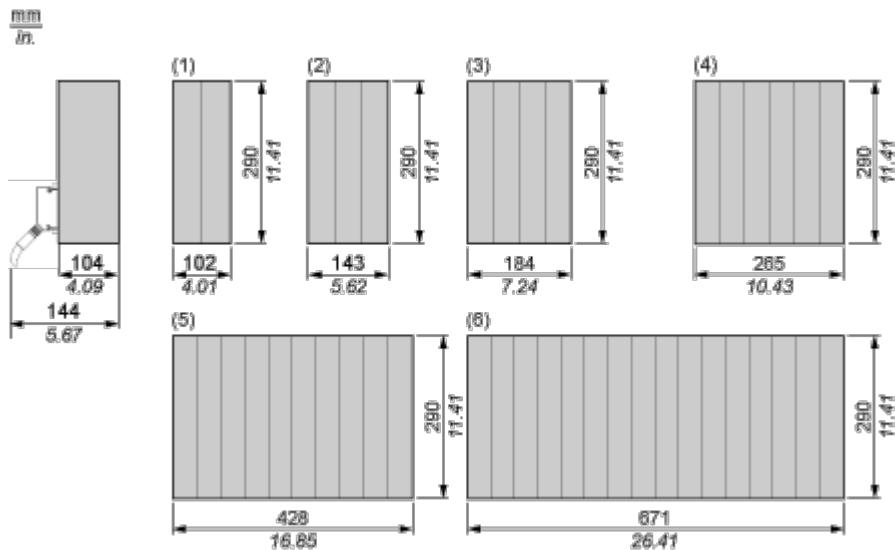
Repair

No

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