



Main

Range of product	Modicon Quantum automation platform
Product or component type	Unity processor

Complementary

Clock frequency	66 MHz
Number of slots	10 16 2 4 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	0 - 0 ethernet remote I/O rack(s) 31 - 2 S908 remote I/O rack(s)
Discrete I/O number	Unlimited (26 slots max) - local 8000 inputs, 8000 outputs - distributed - per network Modbus Plus 31744 inputs, 31744 outputs - remote
Analogue I/O number	Unlimited (26 slots max) - local 1984 inputs, 1984 outputs - S908 remote I/O 500 inputs, 500 outputs - distributed - per network Modbus Plus
Application specific I/O	Accurate time stamping Counter High-speed interrupt inputs Serial link
Number of optional modules	6 (Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)
Maximum number of connections	6 (Profibus DP) - local 6 (Modbus Plus) - local 6 (Ethernet TCP/IP) - local 4 (AS-Interface) - remote 2 (Modbus) - RS232/485 Modbus/ASCII 2 (AS-Interface) - distributed
Integrated connection type	2 Modbus with 1 Modbus Plus 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	No auxiliary task - 64 interrupt tasks - 64 I/O interrupt tasks - 16 timer interrupt tasks - 1 periodic fast task - 1 cyclic/periodic master task -
Execution time per instruction	0.12...0.585 µs on word 0.12...0.585 µs Boolean 0.1...0.27 µs on fixed-point arithmetic 0.1...0.27 µs floating points

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Number of instructions per ms	2.49 Kinst/ms if 65 % Boolean and 35 % numerical 1.86 Kinst/ms if 100 % Boolean
System overhead	1 ms - master task 0.2 ms - fast task
Bus current requirement	1800 mA
Local signalling	1 LED red for communications error on the Modbus Plus port (ERROR A) 1 LED red for battery needs replacing or is not present (BAT LOW) 1 LED orange for write-protected memory (memory port) 1 LED green for CPU has passed the power-up diagnostic tests (READY) 1 LED green for CPU has been started and is solving logic (RUN) 1 LED green for communications are active on the Modbus port (Modbus) 1 LED green for communications are active on the Modbus Plus port (Modbus Plus)
Electrical connection	2 female connectors, connector type: SUB-D 9 for connecting to the Modbus bus 1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network

Environment

Protective treatment	Conformal coating Humiseal 1A33
Product certifications	CE CSA GOST UL Misc (Marine)
Standards	HazLoc

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0948 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations

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