



Main

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

Complementary

Clock frequency	166 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	16 - 2 ethernet X80 remote I/O rack(s) 31 - 2 ethernet Quantum remote I/O rack(s) 31 - 2 S908 remote I/O rack(s)
Discrete I/O number	Unlimited (31 drops of 28 slots max) - ethernet remote I/O Unlimited (26 slots max) - local 8000 inputs, 8000 outputs - distributed - per network Modbus Plus 31744 inputs, 31744 outputs - remote
Analogue I/O number	Unlimited (31 drops of 28 slots max) - ethernet remote I/O 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
Communication service	Ethernet router
Number of optional modules	6 (Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)
Maximum number of connections	1 (Modbus) - RS232/485 Modbus/ASCII 6 (Profibus DP) - local 6 (Modbus Plus) - local 6 (Ethernet TCP/IP) - local 4 (AS-Interface) - remote 2 (AS-Interface) - distributed 1 (USB)
Integrated connection type	1 USB with 1 Modbus with 1 Ethernet TCP/IP with 1 Modbus Plus with
Checks	Process control
Memory description	Internal RAM 768 kB Expandable 8 MB - file storage with PCMCIA card Expandable 7168 kB - program with PCMCIA card
Switch function	Key switch memory port on/off

Application structure	4 auxiliary tasks - 32 timer interrupt tasks - 128 interrupt tasks - 128 I/O interrupt tasks - 1 periodic fast task - 1 cyclic/periodic master task -
Execution time per instruction	0.48...0.56 μ s floating points 0.0525...0.075 μ s Boolean 0.045...0.06 μ s on word 0.045...0.06 μ s on fixed-point arithmetic
Number of instructions per ms	20 Kinst/ms if 65 % Boolean and 35 % numerical 15 Kinst/ms if 100 % Boolean
System overhead	1 ms - master task 0.2 ms - fast task
Bus current requirement	2160 mA
Local signalling	1 LED red for Ethernet collision 1 LED green for Ethernet activity (COM)
Electrical connection	1 connector, connector type: RJ45 for connecting Modbus bus 1 connector, connector type: RJ45 for connecting Ethernet network 1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network

Environment

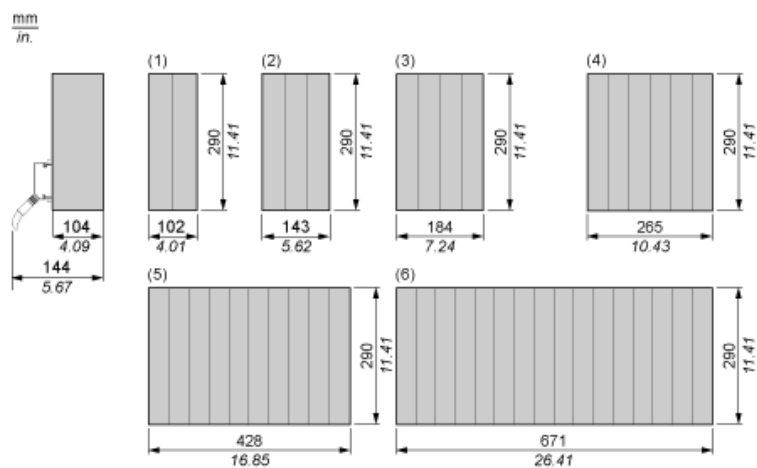
Protective treatment	Conformal coating Humiseal 1A33
Product certifications	CE CSA GOST UL ATEX zone 2 IEC-Ex Misc (Marine)
Standards	HazLoc

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1009 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
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