



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 distributed network(s)
Number of remote I/O station	31 - 2 remote rack(s)
Discrete I/O number	8000 inputs, 8000 outputs - distributed - per network 31744 inputs, 31744 outputs - remote Unlimited (26 slots max) - local
Analogue I/O number	Unlimited (26 slots max) - local 500 inputs, 500 outputs - distributed - per network 1984 inputs, 1984 outputs - remote
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	Unlimited (AS-Interface) - local 6 (Profibus DP) - local 6 (Modbus Plus) - local 6 (Ethernet TCP/IP) - local 4 (AS-Interface) - remote 2 (AS-Interface) - distributed 1 (USB) 1 (Modbus) - RS232/485 Modbus/ASCII
Integrated connection type	1 Ethernet TCP/IP 1 Modbus 1 Modbus Plus 1 USB
Checks	Process control
Memory description	Expandable 8 MB - file storage with PCMCIA card Expandable 7168 kB - program with PCMCIA card Internal RAM 768 kB
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

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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
Execution time for 1 K instruction	9.91 65 % Boolean and 35 % numerical 10.28 100 % 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 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network 1 connector, connector type: RJ45 for connecting Modbus bus 1 connector, connector type: RJ45 for connecting Ethernet network 1 connector, connector type: MT-RJ (fiber optic) for interconnecting primary and secondary PLCs (hot standby architecture)

Environment

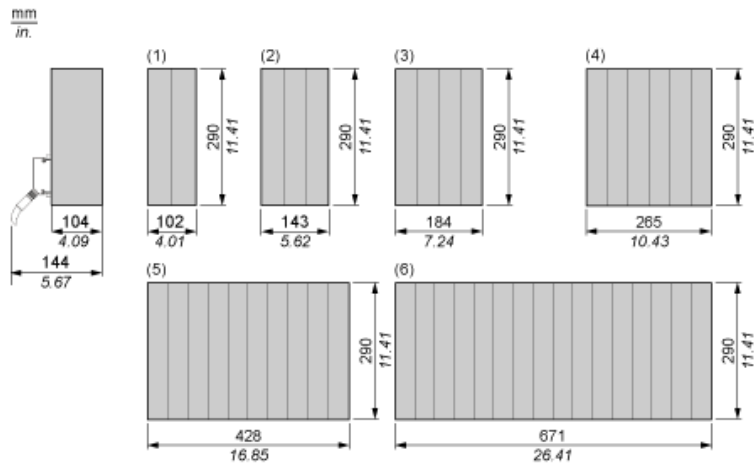
Product certifications	ABS BV CE CSA DNV GL GOST RINA RRS UL
Standards	HazLoc

Contractual warranty

Period	18 months
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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