



### Main

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

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### 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 $\mu$ s floating points 0.0525...0.075 $\mu$ s Boolean 0.045...0.06 $\mu$ s on word 0.045...0.06 $\mu$ 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