



Main

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

Complementary

Mode of transmission	Multi mode
Clock frequency	266 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 S908 remote I/O rack(s) 6 - 2 ethernet X80 remote I/O rack(s) 0 - 0 ethernet Quantum remote I/O rack(s)
Discrete I/O number	0 - local - forbidden in Hot Standby application Up to 6 drops X80 - ethernet remote I/O 0 - S908 remote I/O - not configurable 8000 inputs, 8000 outputs - distributed - per network Modbus Plus
Analogue I/O number	0 - local - forbidden in Hot Standby application Up to 6 drops X80 - ethernet remote I/O 0 - S908 remote I/O - not configurable 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	3 (Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)
Maximum number of connections	3 (Profibus DP) - local 3 (Modbus Plus) - local 3 (Ethernet TCP/IP) - local 1 (Modbus) - RS232/485 Modbus/ASCII 4 (AS-Interface) - remote 2 (AS-Interface) - distributed 1 (USB)
Integrated connection type	1 optic fibre with Hot Standby protocol 1 USB with 1 Modbus with 1 Modbus Plus with
Checks	Hot standby Process control
Memory description	Internal RAM 512 kB - 512 kB for data 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	1 cyclic/periodic master task - 4 auxiliary tasks - forbidden in Hot Standby application 32 timer interrupt tasks - forbidden in Hot Standby application 128 interrupt tasks - forbidden in Hot Standby application 128 I/O interrupt tasks - forbidden in Hot Standby application 1 periodic fast task - forbidden in Hot Standby application
Execution time per instruction	0.4...0.5 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 100 % Boolean 15 Kinst/ms if 65 % Boolean and 35 % numerical
System overhead	1 ms - master task 0.2 ms - fast task
Bus current requirement	2500 mA
Local signalling	1 LED red for Ethernet collision 1 LED green for Ethernet activity (COM)
Electrical connection	1 connector, connector type: MT-RJ (multimode fiber optic) for interconnecting primary and secondary PLCs up to 4 km 1 connector, connector type: RJ45 for connecting Modbus bus 1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network

Environment

Product certifications	CE CSA GOST UL Misc (Marine)
Standards	HazLoc

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