140CPU67160

Unity Hot Standby processor with multimode Ethernet - 1024 kB - 266 MHz

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	31 - 2 S908 remote I/O rack(s) 31 - 2 ethernet Quantum remote I/O rack(s) 16 - 2 ethernet X80 remote I/O rack(s)
Discrete I/O number	31744 inputs, 31744 outputs - remote Unlimited (31 drops of 28 slots max) - ethernet remote I/O 0 - local - forbidden in Hot Standby application 8000 inputs, 8000 outputs - distributed - per network Modbus Plus
Analogue I/O number	1984 inputs,1984 outputs - remote Unlimited (31 drops of 28 slots max) - ethernet remote I/O 0 - local - forbidden in Hot Standby application 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 (USB) 2 (AS-Interface) - distributed 4 (AS-Interface) - remote 6 (Ethernet TCP/IP) - local 6 (Modbus Plus) - local 6 (Profibus DP) - local 1 (Modbus) - RS232/485 Modbus/ASCII
Integrated connection type	1 Modbus Plus with 1 Modbus with 1 USB with 1 optic fibre with Hot Standby protocol
Checks	Hot standby Process control
Memory description	Expandable 7168 kB - program with PCMCIA card Expandable 8 MB - file storage with PCMCIA card Internal RAM 1024 kB - 512 kB for data
Switch function	Key switch memory port on/off
Application structure	1 periodic fast task - forbidden in Hot Standby application 128 I/O interrupt tasks - forbidden in Hot Standby application 128 interrupt tasks - forbidden in Hot Standby application

Schneider Electric

	32 timer interrupt tasks - forbidden in Hot Standby application
	4 auxiliary tasks - forbidden in Hot Standby application
	1 cyclic/periodic master task -
Execution time per instruction	0.0525...0.075 µs Boolean
	0.045...0.06 µs on word
	0.045...0.06 µs on fixed-point arithmetic
	0.4...0.5 µs floating points
Execution time for 1 K instruction	15 65 % Boolean and 35 % numerical
	20 100 % Boolean
System overhead	1 ms - master task
	0.2 ms - fast task
Bus current requirement	2500 mA
Local signalling	1 LED green for Ethernet activity (COM)
	1 LED red for Ethernet collision
Electrical connection	1 connector, connector type: RJ45 for connecting Modbus bus
	1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network
	1 connector, connector type: MT-RJ (multimode fiber optic) for interconnecting primary and secondary PLCs up to 4 km

Environment

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