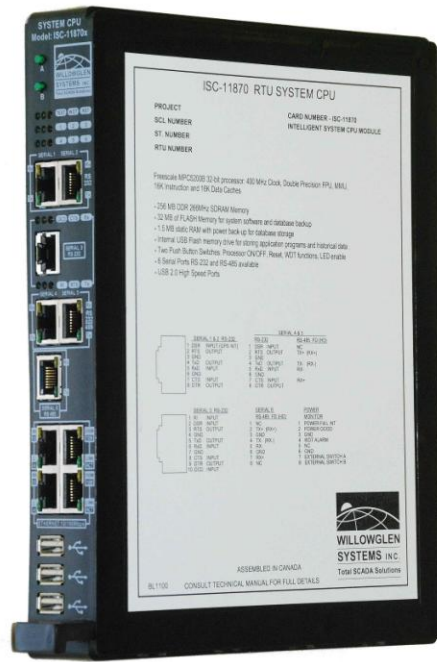


PRODUCT DESCRIPTION



General Description

The ISC-11870 Processor is a powerful fourth generation processor card for the Willowglen Unisen Model 2204, 2208 and 2216 systems. The processor card can be a swap in replacement for existing ISC cards in the legacy Model 8016 and Model 1208 RTUs to provide an easy upgrade.

Extensive communications support including 10/100 Mbps Ethernet, 6 serial RS-232/RS-485 ports, and 3 optional USB ports.

Web interface for easy configuration from any standard PC without the need for custom software.

Provides support for all 5 industry standard IEC 61131-3 PLC programming languages. This allows user written programs to run on the RTU for local control.

Uses the stable open source Linux operating system.

Features

- Based on the Freescale Power Architecture with PowerPC processor.

The 32-bit processor provides 760 MIPS at 400 MHz with DDR SDRAM. Integrated double precision floating-point math unit, memory management unit, 10/100 Ethernet MAC, PCI bus, and power management.

- 256 MB of high speed DDR SDRAM
- 128 MB of on-board Flash memory for operating system and basic application programs. Supports field and remote update of system programs.
- On-board super capacitor provides minimum 100 hours of back-up power for real-time-clock and static RAM used for non-volatile database storage
- 10/100 Mbps Ethernet integrated 5 port switch with 1 port dedicated to the processor Ethernet controller and 4 external ports for device and host communications
- Optional internal Solid State Storage
- 6 serial ports (combination of RS-232 and RS-485) with modular RJ type connectors
- Watchdog timer reset function
- On-board temperature sensor
- LED indicators with power-down. Indicates serial port activity as well as hardware and program status
- Available dual redundant capability with automatic switch over and hot swap capability to allow replacement of failed unit

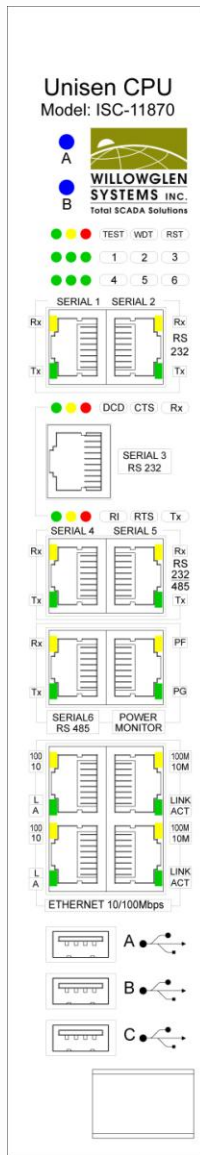
Two push-button switches for multiple functions including RESET, WDT alarm clear, LED indicator power enable

9 LED status indicators including RESET and WDT alarm

RS-232 serial port (full 8-wire interface)

RS-485 port with software configurable 4-wire full-duplex or 2-wire half-duplex modes

4 Ethernet 100BASE-TX connectors



2 RS-232 serial ports (4-wire interface)

Two software configurable ports: either RS-232 or RS-485

Power Monitor: used for an early indication of a power failure.

3 Optional USB ports

Specifications

Mechanical

- Plastic Enclosure Size:
238mm high by 188mm deep by 38mm wide
(9.375 in by 7.40 in by 1.5 in)

Electrical

Power Consumption: Typical 500mA @ 5VDC

Environmental Specifications

- Operating Temperature: 0°C to +75°C
- Storage Temperature: -40°C to +75°C
- Operating Humidity: 10% to 90%
- Storage Humidity: 5% to 90%

Unisen is a trademark of Willowglen Systems Inc.
Freescale is a registered trademark of Freescale Semiconductor Inc.
Power Architecture is a registered trademark of Power.org
PowerPC is a registered trademark of IBM

Specifications subject to change.



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