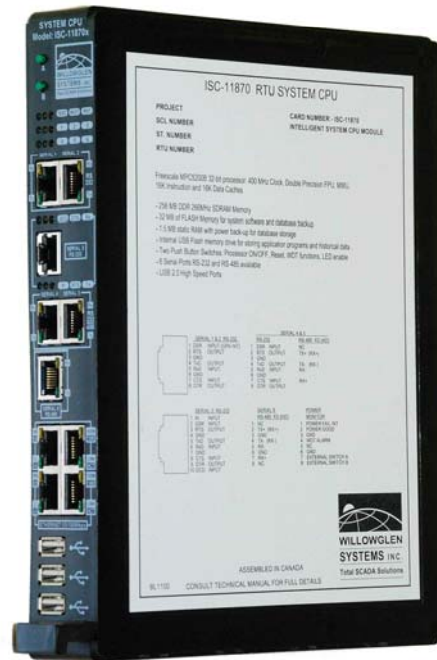


PRODUCT DESCRIPTION



General Description

The new ISC-11870 is the powerful fourth generation controller card available for the Willowglen Unisen™ Model 2216 and 2208 RTU SCADA Systems. This processor card was specifically developed as a swap in replacement for existing ISC cards in SCANTRACK™ Model 8016 and 1208 RTUs to provide an easy upgrade.

Extensive communications support including 10/100 Mbps Ethernet, USB 2.0 high speed ports, and a total of 6 serial RS-232/RS-485 ports are available for the user.

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

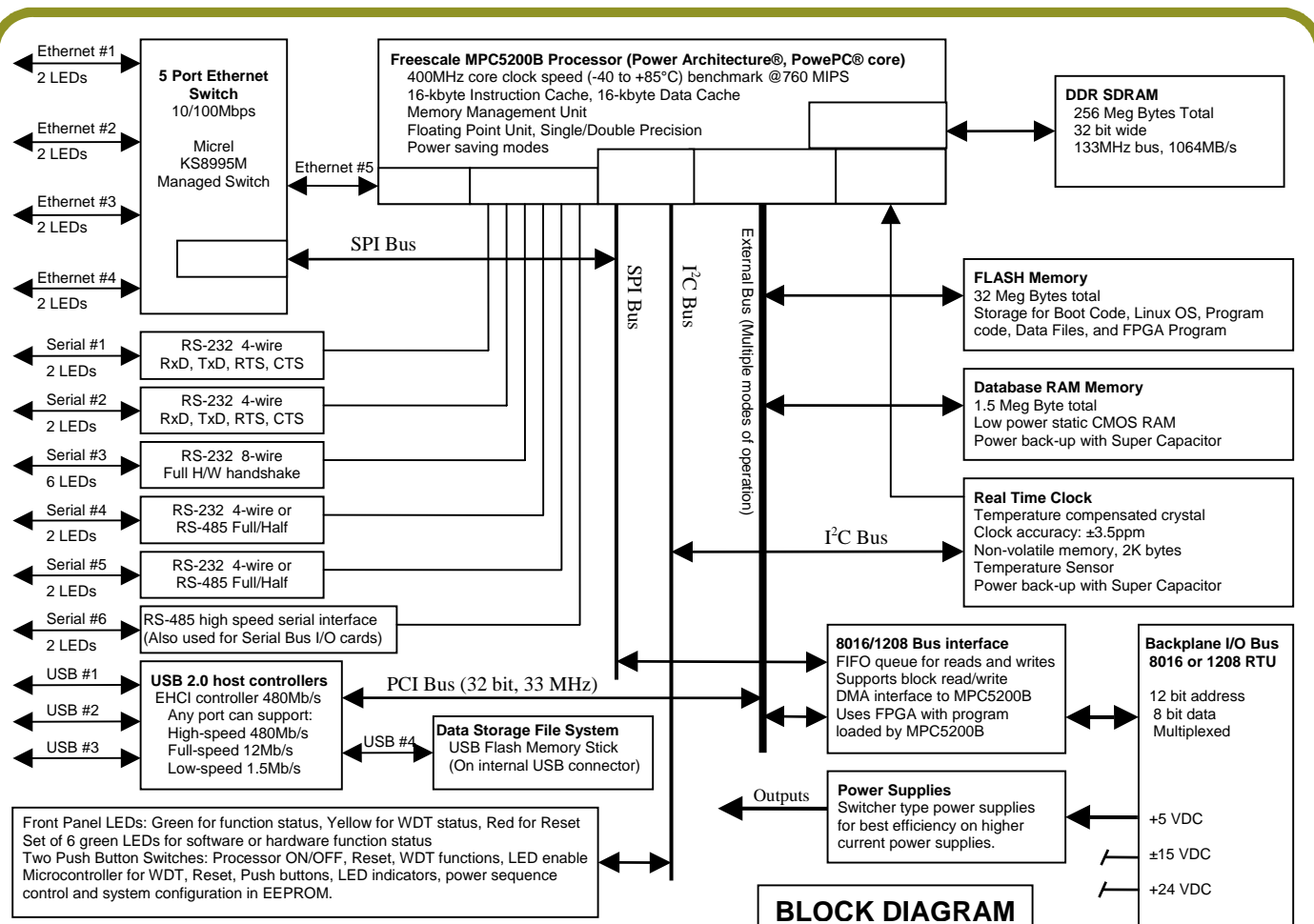
Provides support for industry standard IEC 61131-3 PLC programming language. This provides local intelligent control of RTU I/O even during loss of communications to the SCADA host.

Uses open source Linux operating system.

Features

- Based on high performance superscalar architecture Freescale™ Power Architecture processor with PowerPC® core. The 32-bit processor provides 760 MIPS at 400 MHz with DDR 266MHz SDRAM memory. Integrated double precision floating-point math unit, memory management unit, 10/100 Ethernet MAC, PCI bus, and power management

- ISC card benefits from an eight layer printed circuit board with excellent EMI shielding
- 256 MB of high speed DDR SDRAM
- 32 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 five port switch with one port dedicated to the processor Ethernet controller and four external ports for device and host communications
- USB 2.0 high speed ports: three external and one internal port
- Internal USB port is available with USB Flash Memory Drive for storage of application programs and historical data
- Six 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 to good unit and hot swap capability to allow replacement of failed unit



ISC-11870 DETAILS

PROCESSOR SYSTEM

- Freescale MPC5200B 32-bit processor: 400 MHz Clock, 133 MHz DDR SDRAM Memory Interface, Double Precision FPU, MMU, 16K Instruction and 16K Data Caches, External Bus with PCI bus mode.
- 32 MB of FLASH Memory for system software and for database backup
- 256 MB DDR SDRAM Memory
- 1.5 MB static RAM with power back-up for database storage
- Internal upgradable USB Flash memory drive for storing application programs and historical data

SERIAL COMMUNICATION PORTS

- Two RS-232 serial ports (4-wire interface)
- One RS-232 serial port (full 8-wire interface)
- Two software configurable ports: either RS-232 (4-wire interface) or RS-485 with software configurable 4-wire full-duplex or 2-wire half-duplex modes
- One high speed RS-485 port: with software configurable 4-wire full-duplex or 2-wire half-duplex modes
- Serial ports use convenient RJ45 modular connectors
- Serial RS-232 data rates of 110 to 115k baud supported

FRONT PANEL

- LED indicators with automatic power off timer
- 9 LED status indicators including RESET and WDT alarm
- LED status indicators on all serial ports for transmit and receive activity
- Two push-button switches for multiple functions including RESET, WDT alarm clear, LED indicator power enable

MECHANICAL

- Polycarbonate Housing Size: 238mm high by 188mm deep by 38mm wide (9.375" x 7.40" x 1.5")

ELECTRICAL

- Power Consumption: Typical 500mA @ 5VDC

ENVIRONMENTAL

- Operating Temperature: 0° C to +75° C
- Optional Operating Temperature: -40° C to +75° C
- Operating Humidity: 10 to 95% (non-condensing)

For additional information on specific configurations and pricing for the ISC-11870, please contact Willowglen Systems Inc.

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