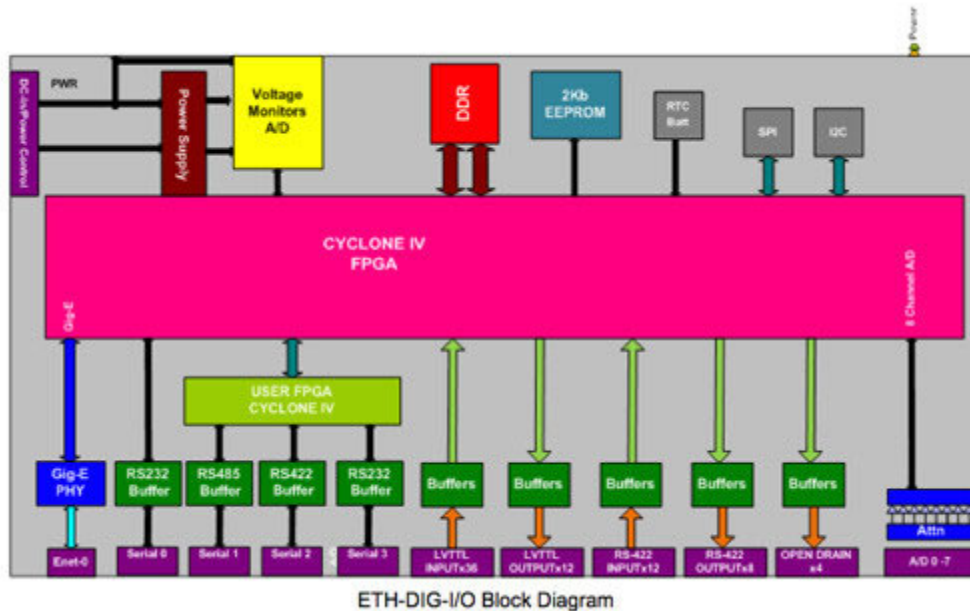


Rugged, Small, Lightweight, Ethernet, FPGA-Based Multi-Function I/O Controller



The Eth-ReporterII is an Ethernet based Multi-Function I/O module that employs dual Altera Cyclone® FPGAs for maximum deterministic performance and I/O capability. The module provides an Ethernet network interface for Digital I/O, Analog and Serial communication. Although it is fully functional as delivered, the User FPGA can be modified for custom bus implementations, which allows maximum flexibility and pre-processing capability for time-sensitive applications. To communicate with the host, the ATC-ETH-DIG-I/O uses simple standard networking protocol – Modbus – that allows for control and data transfers.



The Eth-ReporterII uses a single 160 pin I/O connector for all system inputs and outputs. The I/O connector is a high density D-type connector with female pins. The mating cable end connector is available in a number of configurations to meet specific application requirements.

Features

- User FPGA for applications requirements via RS-232/422/488 (encryption, custom communication protocols, etc.)
- One GigE port with ModBus TCP
- Up to three RS-232/422/485 ports via User FPGA
- Thirty six general purpose LVTTTL lines with 1K Ω pull up resistor
- Twelve buffered general purpose LVTTTL lines with 24mA drive per line
- Four low-side open drain putput channels with 1A drive per channel
- Eight RS-422 output channels, twelve input channels
- One I2C interface channel
- One SPI interface channel
- Eight 16-bit A/D channels for external voltage monitor
- Internal voltage monitor capability
- Designed and manufactured in USA

Environment

- Operating temperature: -40° to +85° C
- Shock: 30G, 15ms sawtooth
- Vibration: 15G, 5-2000 Hz
- Input voltage: +12 to +28 VDC

Mechanical

- Size: 5.4" x 5.5" x 1.6" (WDH)
- Rear panel I/O: 160-pin Molex
- Weight: 1.67 lbs
- MTBF: >250,000 hours



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