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Find the *Abaco Systems / Condor Engineering CEI-400-21R* at our website: ***Click HERE***

ARINC

Interface for PC/104

CEI-400

FEATURES

- Up to 4 Rx, 4Tx ARINC 429 or 575 channels per board
- Economical solution
- Multiple configurations available
- Meets PC/104 standards
- High and low ARINC 429 databus speeds
- Interrupt driven or polled operation
- Internal wraparound self-test
- Extended operating temperature range available

See our on-line Commercial Products Configuration Guide for available configurations.

http://www.condoreng.com



The CEI-400 has been designed to conform to industry standard PC/104 specifications, is based on proven Condor technology, and facilitates simplified access to ARINC 429 databus functionality. Available in multiple configurations, the CEI-400 will support a maximum of 8 ARINC 429 or ARINC 575 channels per module.

The CEI-400 supports ARINC 429 and ARINC 575 avionics databuses, conforms to PC/104 specifications, and is based on a industry-standard chip set. Several hardware configurations are available, supporting up to a maximum of eight ARINC channels (2Rx/1Tx; 2Rx/2Tx; 4Rx/2Tx; or 4Rx/4Tx). Jumpers are provided for selection of slew rate, IRQ number and hardware address.

The CEI-400 uses an 8-bit PC/104 bus, while passing through 16-bit bus signals for other modules. An 8 word Transmit FIFO buffer (of 32-bit words) is provided, and the CEI-400 can be programmed for either interrupt-driven or polled operation. For polled operation, each ARINC channel utilizes a separate status bit. Multiple CEI-400 boards can be supported on the same PC/104 bus. All Receive channels are dedicated. Transmit channels are multiplexed in the 2Rx/2Tx and 4Rx/4Tx configurations.

Configurations are available with no socketed parts and a -40°C to +85°C operating temperature range.

SPECIFICATIONS

ARINC 429 Receive Channels

- Number of channels: 4 or 2
- Data rates: 14.5 KHz or 100 KHz
- Input levels: ± 6.5 to ±13 VDC (A to B)
- Filtering: SDI
- Parity: odd

ARINC 429 Transmit Channels

- Number of channels: 4, 2 or 1
- Data rates: 12.5 KHz or 100 KHz
- Output level: ±10 VDC (A to B)
- Parity: odd or even

Physical/Environmental

- Operating temperature: 0°C to +70°C
- Optional operating temperature range: -40°C to +85°C
- Storage temperature: -40°C to +85°C
- Power requirements: +5 VDC, +12 VDC, -12 VDC
- Card size: 3.77" x 3.55"

Warranty: 3 year limited hardware warranty

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