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

CEI-400

ARINC 429 and 575 Interface for PC/104 Platforms


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 data bus functionality. Available in multiple configurations, the CEI-400 will support a maximum of 8 ARINC 429 or ARINC 575 channels per module.

FEATURES:

- Economical solution
- Multiple configurations available
- Up to 8 ARINC 429 or 575 channels per board
- Commercial or Industrial temperature range
- Meets PC/104 standards
- High and low ARINC data bus speeds
- Interrupt driven or polled operation
- Internal wraparound self test Supports all Receive and Transmit Labels

HARDWARE

The CEI-400 supports ARINC 429 and ARINC 575 avionics data buses, 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.

Also available is the CEI-400I family, which has ruggedized configurations with no socketed parts, and a -40 to +85 degrees C operating temperature range.

SPECIFICATIONS:

ARINC Receive Channels

Number of channels: 4 or 2
Bus speeds: 12-14.5 KHz or 100 KHz
Input levels: +6.5 to +13.5 VDC (A to B)
Parity: Odd
Filtering: SDI

ARINC Transmit Channels

Number of channels: 4, 2 or 1
Bus speeds: 12.5 KHz or 100 KHz
Output levels: +10 VDC (A to B)
Parity: Odd or even

Physical

Power Required: +5 VDC, +12 VDC
Operating Temperature: 0 to 70 degrees C
Optional Temperature Range: -40 to +85 degrees C
Card Size: 3.775" x 3.55"

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