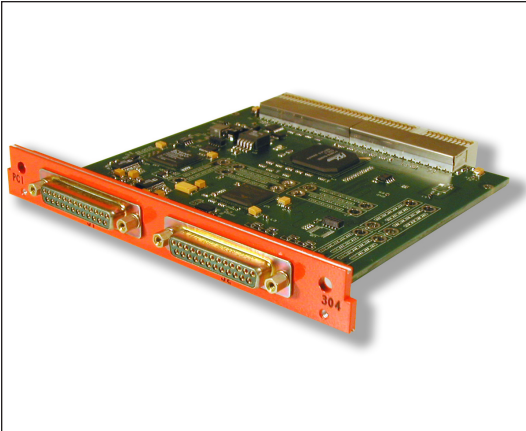


## 4-Channel PCM Interface Card



### Applications

- Data Acquisition Systems
- Flight Test Instrumentation
- Lab Test

### Features

- For use in TTC'S AIM and HS-AVDAU products
- Four (4) independent PCM channels
- Each channel supports differential or single-ended input signals
- Built-in programmable frame correlator per channel
- Optional two-channel Bit Synchronization feature
- Operation up to 20 Mbps per channel
- Multiple PCI-304 cards can operate in a chassis

### Description

The PCI-304 is a 4-channel PCM Input Card for use in TTC's Airborne Instrumentation Multiplexer (AIM) and High-Speed Avionics Data Acquisition Unit (HSAVDAU) products. The PCI-304 card has four independent channel inputs, each of which accepts either single-ended or RS-422 differential inputs at standard rates up to 20 Mbps on a per-channel basis. All incoming data is buffered on the card, formatted as embedded PCM words, and sent to the Overhead card for word selection and eventual telemetry transmission or storage on the recorder unit. The aggregate data rate output can be up to 80 Mbps. In addition, the PCI-304 can be optioned to support bit synchronization on two channels (Channel 1 and/or 2). The bit synchronizer provides full-featured clock reconstruction, data recovery and code conversion. It can accept inputs up to 20 Mbps for NRZ codes and up to 10 Mbps for BiØ codes. Data input amplitudes from 0.1 to 5.0 Vp-p are accepted. Card input impedance is programmable to 50, 75 or 10k Ohm. The four PCM/Clock interfaces are accessible at the PCI-304 faceplate via two DB-25 connectors. Multiple PCI-304 cards can reside in a given chassis. The PCI-304 driver and application software are available on the Overhead card that resides in the same chassis as the PCI-304. The PCI-304 can be programmed to enable or disable each individual channel, accept either single-ended (TTL) or differential (RS-422) inputs, setup the frame decommutation, and setup the bit synchronizer (if present). The card provides background status reporting on a channel basis.

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### PCI-304 Datasheet

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