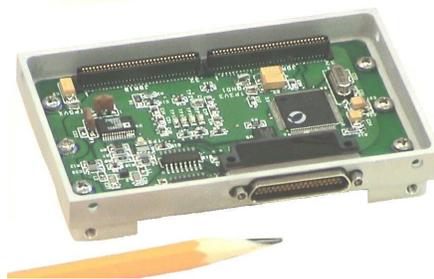




4001 APCMIN1 Dual Channel PCM Input Module



FEATURES

- Two independent input channels
- Accepts NRZ-L,M,S; Bi-phase-L,M,S; DM-M, S; RNRZ-L
- TTL and RS-422 Level Inputs
 - Fail-safe differential (RS-422) inputs
- Single height module (0.40" x 2.5" x 4.0")
- 3.5 Kbps to 15 Mbps (Bi-phase & DM codes)
- 3.5 kbps to 35 Mbps (NRZ codes)
- Automatically tracks input bit rate including real time format changes & drifts
- Micro D-37 pin connector interface

OVERVIEW

The APCMIN1 dual channel PCM input module accepts two channels of TTL or RS-422 PCM data and clock, which it buffers and formats into source packet data units. These source packets are routed over the AL4000 backplane to the APACK1 module, which multiplexes data from all installed modules into a composite output stream. More than one APCMIN1 module can be installed to accommodate the desired number of PCM channels. All APCMIN1 inputs are magnetically coupled to provide EMI and noise protection.

Upon power up, the APCMIN1 module slot address is automatically detected and programming is then possible. Making the APCMIN1 ready to pass data only requires the selection of RS-422 or TTL as inputs, selecting the bit processing format, and setting the channel identifiers. When data and clock are applied, the channels track and report the incoming clock rate.

The 4001 APCMIN1 is used in conjunction with the Apogee Labs' 2017 Demux9 and 4022 APCMO modules.

SPECIFICATIONS

GENERAL

- Single height module, 0.40" x 2.5" x 4.0" (4 Cubic Inches)
- Weight: 2.5 oz
- Power consumption: 3.77W
- Accepts NRZ-L,M,S; Bi-phase-L,M,S; DM-M, S; RNRZ-L
- 3.5 kbps to 35 Mbps (NRZ codes)
- 3.5 kbps to 15 Mbps (Bi-phase and DM codes)

COMPLEMENTARY HARDWARE

- 2017 Demux9
- 4022 APCMO

PCM DATA CHANNELS

- Two; individually programmable
- Automatic input frequency tracking

SERIAL PCM DATA & CLOCK

- User selectable
- TTL-- with 50 Ohm Termination
- RS-422--with 130 Ohm Termination and 698 Ohm Failsafe Resistors

INTERFACE CONNECTOR

37-pin Micro-Miniature D-Type