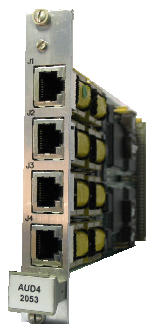# APOGEE LABS

2053 AUD4
Four Channel Audio Mux / Demux Module

FEATURES

- Four input and four output channels
- Four wire interface
- Full duplex operation

- RJ-45 I/O connectors
- Transformer isolation: 1500 Vrms
- 300 Hz to 3000 Hz bandwidth

OVERVIEW

The AUD4 is an AL4300 compatible module intended for use in systems that require bidirectional audio frequency channels. Four toll quality voice circuits are provided by this module.

Party-line communication is supported because of the capability of the AUD4 to collect and linearly sum selected remote audio sources. A single AUD4 is programmable to permit the capture and decoding of up to 24 remote audio sources. Each output channel may be programmed to accept up to six remote inputs. Automatic gain control on each output channel keeps the sum of all the accepted channels from saturating the output.

SPECIFICATIONS

NUMBER OF CHANNELS
- 4 full duplex channels on RJ-45 connectors

CHANNEL CHARACTERISTICS
- Four wire interface
- Full duplex operation with isolated transmit and receive signal pairs
- Balanced pair with no connections to chassis or ground

- Transformer isolation: 1500 Vrms
- 0 dBm nominal level (2.2 Vp-p) into 600Ω
- 300 Hz to 3000 Hz bandwidth
- 32 Kbps per channel

MODULE ID
- 8 bits; 0x00 to 0xFF for module ID
- 3 bits for input channel selection