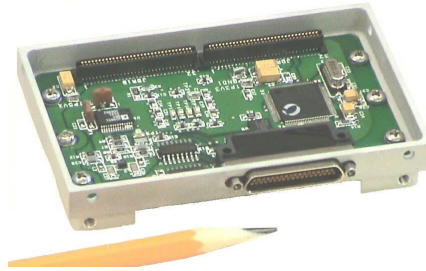# APOGEE LABS

4019
AAUD1 Four Channel Audio Input Module

FEATURES

- Four audio channel inputs
- ADPCM compression yields 32 kbps per channel
- Toll quality audio
- Single height module size (0.40" x 2.5" x 4.0")

- Supports 2 system sampling intervals:
  - 1 Millisecond (lowest delay)
  - 10 Millisecond (lowest overhead)

OVERVIEW

The AAUD1 is a four (4) channel audio signal conditioner. Analog voice band signals in the range of 300 Hz to 3400 Hz are converted to an ADPCM 32 kbps data value. The four (4) channels of digitized audio are incorporated into a source packet that is then passed into the system packetizer by way of the AL4000 Multiplexer/Demultiplexer low-rate multiplex bus. Each input channel operates independently. All channels may be enabled, or any single channel or group of channels may be turned off. Operation of the module is extremely simple: Set the ID and select how many channels are active.

The 4019 AAUD1 is used in conjunction with the Apogee Labs' 2084 AUD1 module.

SPECIFICATIONS

GENERAL
- Miniature 4 channel audio module
- Single height module, 0.40" x 2.5" x 4.0" (4 Cubic inches)

AUDIO INTERFACE
- 300 – 3400 Hz minimum response
- 1.3 Vp-p maximum input level
- Toll quality audio
- Single ended input
- 600/10K ohm input impedance (Select by connector wiring)
- Micro D-37 connector

OPERATIONS
- Digitizes inputs and compresses using ADPCM
- Combines enabled channels into one Source Packet
- Compatible with AMULTI-Bus 1ms & 10ms sample intervals
- Restores last entered settings from EEPROM on power up

SETUP AND STATUS
- Set applications ID (APID)
- Enable / Disable each audio channel

COMPLEMENTARY HARDWARE
- 2084 AUD1

www.apogeelabs.com
info@apogeelabs.com
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9.15.10
210 South Third Street, North Wales, PA 19454
(T) 215-699-2060