



APOGEE LABS

4034

AETHO2 Ethernet Output Module



FEATURES

- Gathers selected data from AL4000 demultiplex bus and outputs to Ethernet LAN through model 4033 AETHI1
- Supports full duplex communications in combination with 4033 AETHI2 module
- Reads and reports transport rate

OVERVIEW

The AETHO2 module is an AL4000 Multiplexer/Demultiplexer compatible device. The AETHO2 is an Ethernet bridge module that connects to the AL4000 demultiplex bus and outputs information gathered from an Ethernet LAN by an Apogee Labs 2319 ETHIO5 module or a 4033 AETHI2 module. The 4034 module reproduces received data at rates up to the maximum theoretical rate of 35,000 Ethernet frames per second if sufficient bandwidth is allocated.

The AETHO2 receives a transport link with embedded Ethernet frames within source packets with an embedded Channel ID (CHID) encapsulated in a CCSDS transfer frame. The CHID, which identifies the source of the data stream, allows an AETHO2 module in an AL4000 stack to capture and reproduce the source LAN on the output of the AETHI2 (4033)

The 4034 cannot function on its own without using the AETHI2 as its physical network interface. The data received by the AETHO2 is transported down an internal network bus to the AETHI2 which provides the physical interface to the user network.

The 4034 AETHO2 in combination with the 4033 AETHI2 is used in conjunction with the Apogee Labs' 2319 ETHIO5.

SPECIFICATIONS

GENERAL

- Single height module, 0.40" x 2.5" x 4.0"
- Compliant with IEEE 802.3 / Ethernet V.2
- Transport rate from 128 Kbps to 24 Mbps
- Max rate: 21 Mbps TCP; 21.5 Mbps UDP with 1ms sample interval
- Requires 4012 ADPAK1 in system
- Requires 4033 AETHI2 in system

CHANNEL ID

- User-Programmable 11-bit Value

INTERFACE CONNECTOR

- 37-pin Micro-Miniature D-Type

COMPLEMENTARY HARDWARE

- 2319 ETHIO5