



APOGEE LABS

2042

GIGELINK Gigabit Ethernet Link Module



FEATURES

- Dual slot module
- Up to 160 Mbps duplex packetized data bandwidth
- 10/100/1000 Mbps Ethernet Connectivity
- Supports 10/100/1000 connectivity
- Supports IPv6 and IPv4
- TCP/IP and UDP/IP (Unicast and Multicast) transport protocols
- Time code input (IRIG-A/B) with auto recognition and flywheel capability
- Integrated BERT for testing network link
- Incorporates Packetizer and Depacketizer
- Compatible with all AL4300 chassis and modules
- Supports 1ms or 10ms sample intervals

OVERVIEW

The 2042 GIGELINK module provides a gigabit Ethernet link to the AL4300 Series Multiplexer and Demultiplexer product line. The GIGELINK allows multiplexed data from up to 16 channel cards to be transported over existing Ethernet LANs and WANs.

By including the Packetizer and Depacketizer on a single module, the GIGELINK can replace link cards in existing AL4300 series chassis'.

All packets sent from the GIGELINK are time stamped to allow for alignment of data from multiple AL4300 chassis'. IRIG-A, IRIG-B, NTP, and IEEE-1588 are accepted as time sources for the GIGELINK. If no time source is given, the time will be free-wheeled starting at 001:00:00:00.

SPECIFICATIONS

SUPPORTED PROTOCOLS

- IPv4 and IPv6
- TCP/IP
- UDP/IP (Unicast and Multicast)
- IEEE-1588
- NTP

IRIG A/B

- Input signal level: 0.2Vp-p min; 8.5Vp-p max
- Input impedance: 600Ω +/- 5%; AC coupled
- Max input without damage: +/-15V

ETHERNET

- 10/100/1000 Mbps

STATUS INDICATORS

- 10 Mbps Ethernet Link
- 100 Mbps Ethernet Link
- 1000 Mbps Ethernet Link
- Ethernet Activity

INTERFACE CONNECTORS

- RJ45 - Ethernet and Data Control
- BNC Female - IRIG inputs and outputs

ENVIRONMENTAL

- Operating temperature: 0° to 55°C
- Storage temperature: -40° to 70°C
- Altitude: 10,000 ft. ASL operating; 40,000 ft. ASL non-operating
- Humidity: Up to 95% non-condensing