



APOGEE LABS

2135

DS3IF2 DS3 LINK MODULE



FEATURES

- Fully integrated Packetizer/Depacketizer
- Full Duplex DS3 Interface (44.736 Mbps)
- Transmit timing settable to internal or receive timing
- Provides 44.209 Mb/s packetized link
- Built in loopback and PRN test features
- Built in compatibility for interfacing to legacy products

OVERVIEW

The DS3IF2 module provides a DS3 (T3) interface for an Apogee Labs AL430x Mux/Demux unit. Functionally, it provides an interface between the AL430x backplane and a DS3 network interface. Electronically it collects data across the backplane from MUX channel cards and packetizes it. It then outputs the data at the DS3 line rate. On the receive side, it receives the packetized data from a DS3 link and will depacketize it and output it to the DEMUX channels across the backplane.

The interface may be used in point to point copper applications having the standard DS3 interface. It may also be used in communication networks. By using the receive timing feature, the transmitter DS3 output rate can be synchronized to the receive clock.

The module also supports loopback feature and an internal PRN feature for testing links. It also has compatibility mode for working with legacy equipment.

SPECIFICATIONS

T3/DS3 INTERFACE

- AMI with B3ZS
- Transformer coupled 75 ohm
- Isolated BNC connectors
- Drives up to 800 feet of coax (75 ohm)
- C-bit Parity
- Adaptive Equalization (RCVR)
- Input Signal Level: 0.8-1.3V

TRANSMIT (TX) TIMING

- Internal: 20 ppm oscillator
- Receive Timing: RX timing used