SKU: 0110-0098
Category: Cards/Units

LET Integrated Services Digital Network (L-ISDN)

The LET Integrated Services Digital Network (L-ISDN) plug-in card has six ISDN circuits. The L-ISDN card transports the 2B+D data from the local exchange as three 64-kbps timeslots through the Tellabs 1000. At the remote terminal the R-ISDN recreates the physical 2B+D format for relay to the customer. The L-ISDN card utilizes mixed analog and digital signal processing circuit technology as described in TR-397.

Features

- Three (3) DS0 TDM
- BER measurement with 2 thresholds
- Supports 2B+D and B1+D configuration
- Loopbacks as described in TR-397
- Responds to ANSI EOC messages
- Provides six, 2-wire DDS circuits
- Can provide system timing
- Six (6) ISDN circuits per card

Highlights

Six (6) ISDN lines.

Each L-ISDN plug-in card accepts six ISDN lines. It uses 2B1Q (2 binary 1 quaternary) line coding for full-duplex transmission at 144-kbps data rate. The transmission format delivers 12 kbps for synchronization, 144 kbps for 2B+D customer data, and 4 kbps for DSL overhead functions. The customer data is divided into two 64-kbps channels (B channels) and one 16-kbps channel (D channel).

Flexible Functionality

The L-ISDN plug-in card provides the interface towards the switch, including the DC termination of the sealing current. The L-ISDN card supports three (3) DS0 TDM and has built-in BER measurement.

Digital Data Service

The L-ISDN plug-in card supports 2-wire Digital Data Service (2w DDS). When deployed in a 2w DDS circuit, the counterpart R-ISDN plug-in card can emulate the 2B1Q (1B+D) Integrated Digital Subscriber Line (IDSL) signal.

LED Indicators

The L-ISDN channel unit has three LED indicators on the faceplate. A green ACTV LED indicates the plug-in card is busy. A steady red FAIL LED indicates that the plug-in card has failed, and a fl ashing red FAIL LED indicates illegal signaling. An amber LOOP LED indicates the plug-in card is in loopback.

Specifications

Physical

- Height: 5.125 inches (13.018 cm)
- Width: 0.563 inch (1.429 cm)
- Depth: 10.5 inches (26.67 cm)
- Weight: 0.5 pound (0.23 kg)

Interfaces

- Six (6) ISDN circuits per card

Power

•Typical power consumption: 5.5 W

Environmentals
•Operating temperature: -40 F / -40 C to +149 F / +65 C
•Humidity (relative): 5 to 95% non-condensing

Compliance
•TR-NWT-000393
•TR-NWT-000397

Signaling
•Line coding: 2B1Q
•Data rate (throughput): 144 kbps
•Loopback modes: Equipment, Facility and DDS Latching

Faceplate LED Indicators
•FAIL Red: Plug-in card failure, or card unable to communicate with the CPU
•FAIL Flashing Red: Illegal signaling detected
•ACTV Green: At least one circuit is active (busy) or supporting testing
•LPBK Amber: A loopback is in progress

Management
•Tellabs Panorama Element Management System (EMS)
•Craft User Interface (CUI)

Software Support
•Minimum base software FP16 and higher

Installations
•Supported in Tellabs 1000 MSAP CBA1120 and CBA1048

Analog Parameters
•Input impedance: 135 ÃŽÂ© Â3 5%
•Equalization Receive: x
•Equalization Transmit: 12.5 dB (2.5 Vpk)
•Sealing current termination: 400 ÃŽÂ©