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Link1 TADILB Modem - FSK Analog Modem, V.23, Sync or Async



- Full duplex to 1200 bps
- Asynchronous or synchronous RS-232
- 4-wire, full duplex line application
- Standalone or rack mount
- PC card rack mode (PC supplies power and ground only)
- High stability transmit and receive frequency

- Ruggedized for full temperature range application, multilayer board available

DESCRIPTION

The Link1 TADILB modem operates at 600 and 1200 bps, synchronous or asynchronous, with V.23 modulation. The modem accepts external transmit clock on pin 24. The modem operates in Link1 DFSK mode (differential frequency shift key) at 600 and 1200 bps. Full 13.5" PC card, 7.25" half card size, and standalone configurations are available. The pc card uses the internal PC ISA bus only for power from the pc bus. The phone line connector is an RJ-11 for 4-wire leased line operation. Transmit is on positions 2 and 3, receive 1 and 4 of the 4 position RJ-11 connector.

The modem has a push/push switch for local digital loop on or off. The DIP switch is located on the PC card and is accessible behind the front panel of the standalone modem. The loopback switch is located on the rear of the unit, next to the DB-25 terminal connector.

SPECIFICATIONS

Modem

Analog full duplex, 4-wire, 600 ohm balanced, Frequency Shift Keying:

Mark-1300 hertz at 600 & 1200 bps, Space-1700 hertz at 600 bps, 2100 hertz at 1200 bps

DFSK. Differential Frequency Shift Keyed (Link1 mode), 600 and 1200 bps

Transmit and Receive clock supplied by modem, Modem supplies transmit clock and recovered received clock, allowing the modem to run sync or async without a switch

Transmit level control from +3 dBm to -30 dBm, (+3, 0 -16 and -30)

The modem operates with no errors when signal interruptions occur at less than 1/4 of a bit length (300 microseconds) at the selected bit rate

Operates with no errors when the signal level changes up to 25 dBm

Will drive up to 30 Km of cable depending upon wire gauge

Switched carrier or constant carrier operation (RTS forced on or terminal controlled)

Digital Interface

RS-232, DB-25S

Signals are Tx, Rx, RTS, CTS, DSR, DCD, TxClock, RxClock, Ext TxClock

RTS/CTS delay is 4 or 8 ms in switched carrier mode or RTS forced on

Rx data is clamped to mark when no receive carrier detect is present.

Rx clock continues to run when carrier detect is off

Tx, Rx, TxClock, Rxclock may be inverted

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SPECIFICATIONS, continued

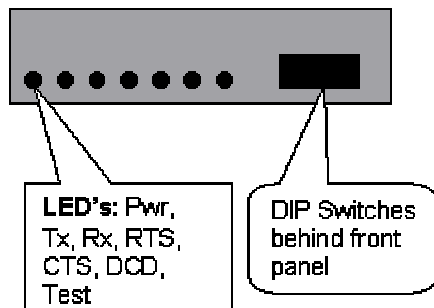
Controls and Indicators

- Power, Tx Data, Rx Data, RTS, CTS, DCD, Test
- Digital loop via rear panel switch and front DIP switch
- Controlled carrier (with RTS/CTS delay) or constant carrier with RTS/CTS on
- RTS/CTS delay of 4 or 8 ms
- Loopback or normal operation
- Internal timing or external transmits timing
- Synchronous speeds of 600 or 1200 bps
- Transmit level of +3 db, 0 db, -16db or -30db
- L1 (DFSK Mode) or TADILB (V.23 mode)
- Internal jumpers to invert Txd, Rxd, TxClock, Rxclock, and open the RS-232 GND lead

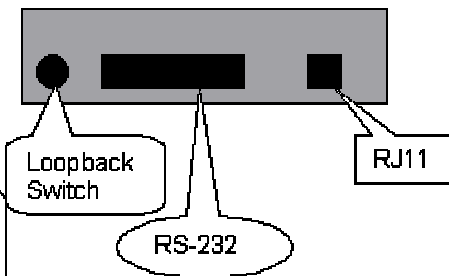
Physical and Electrical

- 35C to +70C operating temperature range for modem and 20 slot power supply
- PC ISA bus format or standalone version,
- PC bus for power and ground only, standalone unit uses 110V wall mount supply
- Half size PC card, 7"D x 4.25"H
- Stand alone: 5.5" W x 7.375"D x 1.5" high, 110VAC wall mount supply (9VDC, 500 ma)
- Other DC power supply voltages available on special order
- A 1.5" x 19" fixture available to rackmount up to 3 standalones in a single 1U height
- 20 slot rack chassis is 16.5"W x 16"D x 7"H, 110-220 VAC, 50-60 HZ 250 W power supply

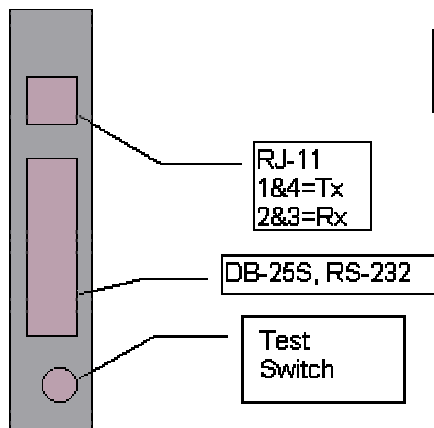
Standalone: Front View



Rear View



PC Card Back Panel Layout



Standalone rack fixture - 18.95" W x 1.5" H

