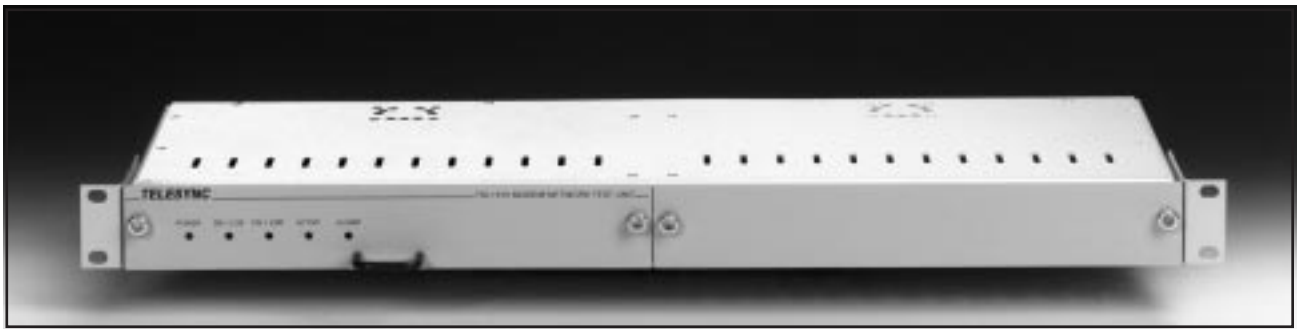
TELESYNC®

TSI-1575 Modem/Network Test Unit



FEATURES

- **Reduce technician dispatch for modem telephone line problems**
- **Remotely verify modem telephone line performance**
- **Permits customers to independently verify modem line performance**
- **Up to 23 simultaneous incoming/outgoing modem test lines**
- **V.90, K56flex,V.34, V.32 modem line test**
- **Provides the carrier with modem line measurements data for last 200 calls and separately last 100 failed calls**
- **Software upgradable for new features and capabilities**

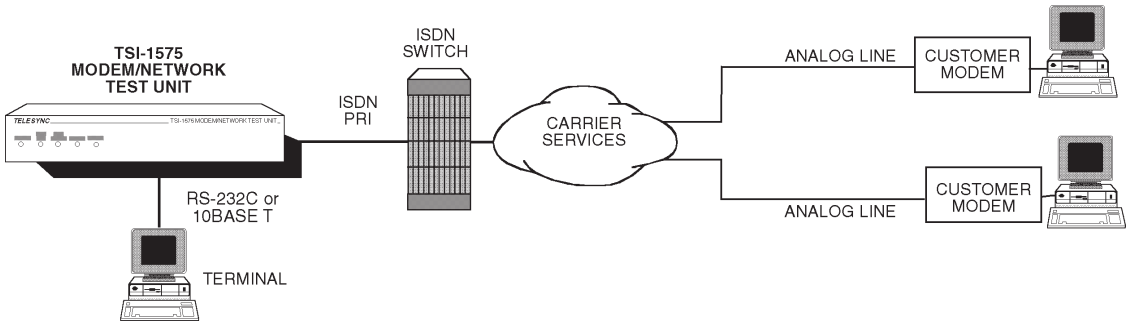
DESCRIPTION

The TSI-1575 MODEM/NETWORK TEST UNIT provides a dial up means of determining the throughput performance of an asynchronous V.90, K56flex, V.34, V.32 modem and the associated telephone lines. The TSI-1575 network connection is to a DS-1 ISDN PRI interface. Configuration and control of the TSI-1575 is through the RS-232C interface or the Ethernet 10BaseT interface using a Telnet session.

Telephone numbers for the DS-1 PRI can be provisioned at the CO Switch so all numbers use all channels, or numbers can be restricted to particular groups of channels. If desired, customers can call numbers in one block of channels and field personnel dial numbers that access different channels. In the TSI-1575, any telephone number can be assigned to test for any tariffed rate.

The TSI-1575 supports up to 23 simultaneous incoming and/or outgoing modem calls and performs throughput performance analysis on each one independently. The TSI-1575 notifies the remote modem user of the speed of the connection and whether the connection was equal to or greater than the tariffed data rate. The customer-received screen can be customized during configuration of the TSI-1575. The TSI-1575 is also capable of originating calls to modems and performing throughput analysis with control using the RS-232C or 10BaseT interfaces.

The performance data on the previous 200 calls is available through the RS-232C or Ethernet interfaces. A separate previous 100 calls performance data log is provided for failed calls. The logs can be searched based on calling number or called number.



TSI-1575 Modem/Network Test Unit

SPECIFICATIONS

Software:

Modem Protocols

V.90: 56000-30000 bits/sec
K56flex: 56000-32000 bits/sec
V.34: 33600 -2400 bits/sec.
V.32bis:14400-7200 bits/sec.
V.32: 9600-4800 bits/sec.
V.22/V.22bis:2400, 1200, 600 bits/sec.
Bell 212A: 1200 bits/sec.
Performance Data: Telephone attenuation distortion characteristics, (attenuation versus frequency), Elapsed time, Modulation, Speed, Roundtrip delay, Receive Level, Transmit Level, SNR, and data error statistics.
ISDN: Compliant with Q.931 "ISDN User-Network Interface Layer 3 Specifications for Basic Call Control".
D-channel Log: A 1000 event ISDN D-channel message circular log is provided. The log can be displayed in detailed format.
RS-232C: 1 Start Bit, 1 Stop Bit, 8 Data Bits, No Parity at 2400, 4800, 9600, 19200 and 38400 baud. Used to load Ethernet address and can control the unit if a Telnet session is not in progress. Downloading of firmware updates is performed only through RS-232C port.
Telnet: Using 10BaseT Ethernet. Only 1 Telnet or RS-232C session at a time permitted for call origination and TSI-1575 configuration. The last 200 incoming and outgoing calls are saved to a log accessible via a Telnet session or the RS-232C interface. A separate 100 event buffer of the last incoming and outgoing calls which failed are saved and accessible via a Telnet session or RS-232C interface. The failed call events include the time, date, calling number, called number, ISDN call reference value and modem performance data.
SNMP: Traps for DS-1 Alarms including LOS, LOF, AIS, Yellow, and D-channel not active and unit diagnostic alarms.

Front Panel LED Indicators
Power On: Green LED indicates -48Vdc applied.
DS-1 LOS: Red LED indicates DS-1 input signal not detected.
DS-1 Error: Red LED blinks to indicate DS-1 input is making errors.
Alarm: Red LED indicates DS-1 LOS, DS-1 Frame Loss, excessive DS-1 errors, D-channel not active or an internal failure.
Active: Green LED indicates one or more of the DS-0 B-channels are active.

Rear Panel Connectors
DS-1 In/Out: Screw-type Phoenix blocks
DS-1 In: 7.2 Vpp to 4.2 Vpp including loss from 2000 feet of cable, 100 ohms balanced.
DS-1 Out: 6 Vpp nominal, 100 ohm balanced.
Framing: ESF
Coding: B8ZS
Ethernet Interface: 10BaseT RJ-45 connector
RS-232C: DB-9 Male, 1 Start Bit, 1 Stop Bit, 8 Data Bits, No Parity.
Baud Rate: Switch selectable 2400, 4800, 9600, 19200, 38400 baud for RS-232C interface.
-48Vdc Power: Screw terminal blocks, -48Vdc @ 20 Watts
Alarm: Contacts and Common indicates a DS-1 LOS, LOF, excessive DS-1 error, D-channel not up, or card failure.

General
Dimensions: 1.75" H x 21.25" W x 11" D, 23 "rack mount
Weight: 6 Lbs.
Temperature: 0C to 50C operating, -25C to 75C storage

ORDERING INFORMATION

TSI-1575 Modem/Network Test Unit
-48Vdc, 23" rack adapters
TSI-1575-2 Modem/Network Test Card

TELESYNC reserves the right to update the product specifications without notice.

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