

Datacom/DDS Module

SSxDSL-9

Data Sheet



The Datacom/DDS Module is part of a family of plug-in modules for the SunSet MTT® and xDSL test sets

The SSxDSL-9 Datacom/DDS Module, part of the SunSet Modular Test Toolkit (MTT) family of products, is a rugged, battery-operated handheld test solution for WAN/data, Frame Relay, and DDS service verification. The module is designed to assist technicians in bringing up new data communication service and troubleshooting the existing data network fast and effectively. The powerful test module can be used for all your testing requirements including, DTE/DCE emulation for end-to-end testing of data networks, bidirectional monitoring for a greater level of troubleshooting for data networks, FOX testing for Frame Relay CIR verification, and Frame Relay Ping testing for checking link connectivity.

FEATURES

Datacom

- DTE/DCE emulation
- Bidirectional monitoring with Y-adaptor
- V.35, RS232, RS449, RS530, X.21
- Data rates from 2400 bps to 2.048 Mbps
- Bit error rate testing with stress patterns
- Control lead status monitor for CTS, RTS, DSR, DTR
- Received data display
- Frame relay UNI/NNI testing

DDS 4-Wire

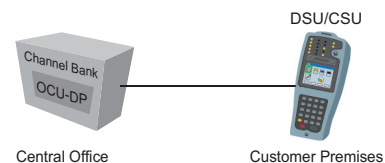
- CSU/DSU emulation
- Bit error rate testing on a primary channel
- Loopback testing
- Received data display

BENEFITS

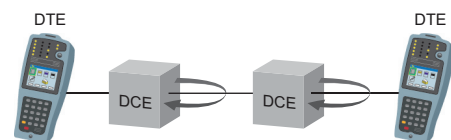
- Lightweight
- Flexible modular design
- Eliminates the need for multiple instruments
- Intuitive and easy-to-use
- Cost-effective and future-proof

APPLICATIONS

CSU/DSU CPE Mode



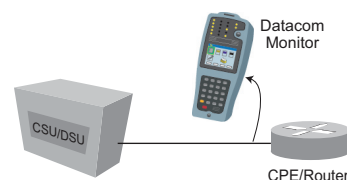
DTE Emulation



DCE Emulation



Datacom Monitoring



DATAKOM SPECIFICATIONS

Supports V.35, X.21/V.11, RS232/V.24, RS449/V.36, RS530 interfaces
Test modes: DTE Emulation, DCE Emulation, Bidirectional monitoring
Connector: SCSI port with adapter cables

Operation Modes

DTE Emulation

- Point-to-point or point-to-loopback BERT
- Control and analyze datacom control leads

DCE Emulation

- Point-to-point BERT
- Control and analyze datacom control leads

Datacom Monitoring

- Bidirectional monitoring with Y-adapter cable
- Monitor control leads, frequency

Measurements

Bit error/G.821

Error count and rate

ITU-T G.821 Analysis

Data loss, data loss seconds, pattern loss, pattern loss seconds

Datacom interface analysis

View received data

Propagation delay

Frame Relay Basic (SWxDSL-9FRA)

LMI standards: ITU-T Q.933, ANSI T1.617, LMI (DLCI 1023, GOF Vendors), NO LMI

Modes: UNI DTE, UNI DCE

LMI Analysis

Results: Link OK Total, Link Errored Total, Timeout Error, Response Sequence Number, Wrong Message
PVC status

PING Test

Results: Number of PINGs, Number of PINGs sent, PING status (Received, Unreached, Errored), Round Trip Time (Current, Average, Maximum, Minimum)

InARP support

IP encapsulation conforms to RFC1490 specification

Echo PING

FOX Test

Results: PVC Status, Current Rate, Errored Frames, RSN Error, SSN Error, Frame Check Sequence (FCS) Error, Count of Frame Received with FECN, with BECN, with DE, Count of transmit frames, Count of received frames

Statistics Analysis

Bidirectional monitoring

Frame relay performance and statistics

DLCI analysis and statistics

Frame Relay NNI (SWxDSL-9FRNNI)

LMI standards: ITU-T Q.933, ANSI T1.617, LMI (DLCI 1023, GOF Vendors), NO LMI

Modes: NNI USER, NNI NETWORK

LMI Analysis, PING Test, FOX Test, Statistic Analysis – as described in Frame Relay Basic section

DDS 4-WIRE SPECIFICATIONS

Test modes: CSU/DSU Emulation

Signal: Bipolar return to zero with alternate mark inversion

Primary channel conforms to AT&T PUB 62310

Connector: 8-pin modular RJ-48

Operation Mode

CSU/DSU CPE Mode

- BERT testing at the DDS-4W interface
- Test primary channels
- Respond to DSU/CSU loop codes

Measurements

Frequency, LOSS, LOFS, EXZS, OOS, OOFs, BPVs, FBEs

Bit error/G.821 Analysis

View received data

Loopback Testing

Transmit: Latching DSU/CSU

Internal loopback: Manual or auto-respond to DSU/CSU command

Status/Alarm Indicators

Dual-color LEDs indicator

Current status and alarm history conditions

PRODUCT DESCRIPTION

Module size (WxLxH): 5.0 x 3.5 x 0.9 in (12.6 x 9 x 2.2 cm)

Operating temperature: 32° to 122°F (0° to 50°C)

Storage temperature: -4° to 158°F (-20° to 70°C)

Humidity: 5% to 85% noncondensing

ORDERING INFORMATION

SSxDSL-9	Datacom/DDS Module
	Testing at both Datacom and DDS-4W interfaces
SWxDSL-9FRA	Frame Relay Basic
SWxDSL-9FRNNI	Frame Relay NNI
	[Requires SWxDSL-9FRA]

For more information or a directory of sales offices: info@sunrisetelecom.com | www.sunrisetelecom.com