

SUNRISE TELECOM®

DS3 Module

SSMTT-24

Data Sheet



The DS3 Module is part of Plug-In modules for the SunSet MTT® and SunSet xDSL test sets

The DS3 Module offers comprehensive transmission testing for both T3 and T1 circuits. With 1 Tx/2 Rx ports at DS3 and 2 Tx/2 Rx ports at DS1, it is suitable for installation and maintenance applications on high-speed DS3 links. Furthermore, the DS3 module, a small and cost effective unit, is integrated into the MTT modular platform that provides flexibility and protects your investment for future growth.

FEATURES/APPLICATIONS

- Dual DS3 receivers for bidirectional monitoring with Dual DS1 Drop
- DS3 point-to-point measurement
- Dual DS1 interfaces for dual BERT
- Fractional T1 (Nx56k and Nx64k)
- Mux/Demux Testing
- Error Injection and Alarm Generation
- View Received Data
- DS1 In-Band and ESF Data Link loop commands
- DS3/DS1 Stuff-bit loopbacks
- DS3 and DS3/DS1 FEAC loop commands
- Intelligent span control supporting addressable repeaters
- HDSL Span Control
- CSU/NIU Emulation
- Propagation Delay
- VF Call Dialing and Analysis
- ISDN Call Setup and Monitoring

BENEFITS

- Flexible modular design
- Compact and lightweight
- Easy to use with intuitive user interface
- Complete solution - eliminates the need for multiple testers

SPECIFICATIONS

Connectors

DS3: BNC (1 tx, 2 Rx)

DS1: RJ-45 (2 Tx, 2 Rx)

Handset Port: 4-pin modular plug

Status and Alarm Indicators

DS3

Payloads: DS3, DS3/DS1

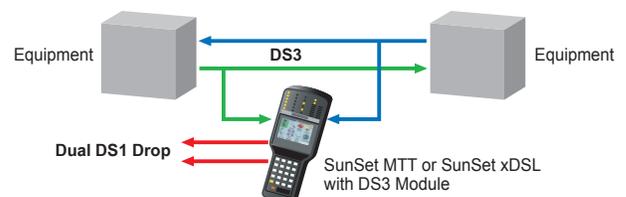
Clock Source: Internal, Loop

Framing: Unframed, M13, and C-bit

Error Injection

Alarm Generation

Dual DS3 Monitoring and Dual DS1 Drop



Measurements

Summary Screen: No Errors indication, list of most recent and important defects and errors, plus power and frequency
DS3 Defects, Path, and Signal
DS1 Defects and Path
Bit Performance (G.821)
Event Status

Loopback and Span Control

DS3 Features

View Received Data
C-bit Monitor
Propagation Delay

Other Features

Auto Configuration
Graphic Screen
Data Storage

DS3 FEAC

DS3 Far End Alarm Control per Telcordia GR-499-CORE, ANSI T1.404
Monitor FEAC Codewords: Capture/Decode
Send FEAC Codeword

DS3 Pulse Mask

DS1 TESTING (SWMTT-24DS1)

Payloads: DS1, Nx56k, Nx64k
Clock Source: Internal, Loop, External DS1, External TTL
Framing: Unframed, SF-D4, ESF, and SLC-96
Error Injection
Alarm Generation

Measurements

Summary Screen: No errors indication, list of most recent and important defects and error, plus power and frequency

DS1 Defects
DS1 Path
DS1 Signal

Loopback and Span Control

DS1 Loopback
HDSL Loopback

DS1 Features

View Received Data
Bridge Tap Detect
Quicktest I/II
Propagation Delay

Voice Frequency Functions

Talk/Listen
Tx Mode: Talk, Tone, Quiet
Tx AB(CD) Bits
Insert Tone
VF Measurements
View Supervision Bits
Noise Measurements

DS1 Pulse Mask

Intelligent Span Control

Automated looping of Westell and Teltrend line and central office repeaters
Graphic indication of loopback state and span status
SF and ESF modes: arm/disarm, loop up/down, sequential loopback, loopback query, power loop query, universal loop down, power cut through, timeout disable, span power down/up, unblocking, clear FT1, dual loopback

DS1 Data Link

ESF Data Link per Telcordia GR-499-CORE, ANSI T1.403
Monitor Bit-Patterned Messages (BPM)
Transmit Bit-Patterned Messages (BPM)
Monitor Performance Report Messages (PRM)
Transmit Performance Report Messages (PRM)

CSU/NIU Emulation

Responds to loopback commands
Line and Payload Loopbacks
Graphic indication of incoming signal status and loopback state
Automatic generation of AIS
Simultaneous display of DS1 line measurements

General

Module Size: 5.0" (W) x 3.5" (L) x 0.9" (H)
[12.6 cm x 9 cm 2.2 cm]
Operating Temperature: 32°F to 122°F [0°C to 50°C]
Storage Temperature: -4°F to 158°F [-20°C to 70°C]
Humidity: 5% to 85% noncondensing

MF/DTMF/DP Dialing & Analysis (SWMTT-24VF)

Dialing
MF/DTMF/DP dialing up to 32 digits
Call Analysis
Signal-to-Noise Measurements

ISDN PRI Call Setup and Monitor (SWMTT-24PRI)

Require SWMTT-24DS1 DS1 testing option
Voice and data call setup and receive
TE and NT emulation
Bidirectional monitoring and call analysis
Bit Error rate test

ORDERING INFORMATION

SSMTT-24	DS3 Module
SWMTT-24DS1	DS1 Testing (includes SA324)
SWMTT-24VF	VF Dialing & Analysis
SWMTT-24PRI	ISDN PRI Call Setup & Monitor (Require SWMTT-24DS1)

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

