

SUNRISE TELECOM®

SunLite E1

2.048 Mbit/s Test Set

Data Sheet



The SunLite E1 Test Set

Fulfill your 2.048 Mbit/s transmission testing needs by using the world's smallest full-feature 2.048 Mbit/s transmission test set, the SunLite E1. Put this economical, yet powerful SunLite E1 in your shirt pocket.

FEATURES

- 2.048 Mbit/s transmit, receive and external clock
- Bit error rate testing (ITU-T G.821)
- ITU-T G.826, M.2100 analysis
- Level and frequency measurements
- +6 to -43 dB receiver input sensitivity
- Term, PMP (Monitor), High Impedance
- Drop and insert capability (N or Mx64k)
- Programmable NFAS Word
- CAS signaling
- Histogram analysis
- Propagation delay
- Store up to 10 test results and 10 configurations
- 75Ω and 120Ω models
- Powered by rechargeable NimH battery pack

BENEFITS

- Lightweight
- Economical and affordable
- Compact full-featured E1 tester
- Easy to use

APPLICATIONS

- Ideal for field testing
- Commissioning and provisioning of 2M networks
- Network maintenance and system integration
- Equipment verification

SPECIFICATIONS

Connectors/Ports

2.048 Mbit/s E1 interfaces: Tx, Rx, Ext. Clock

Standard: BNC (f)

Optional: BR2 (f), Bantam (f)

Serial Ports: RS-232/V.24, RJ11, 6-pins connector

Charger: 1mm, DC jack

Status/Alarm Indicators

LED indicators

Current status and alarm history

The SunLite E1 gives you the choice of 75Ω unbalanced or 120Ω balanced connectors.

A bright backlight LCD display is ideal for often encountered low light working conditions.

Bring LED indicators provide immediate circuit status and history at a glance.

With a single keystroke you can configure the SunLite E1 to your circuit and call up the menu for the test you wish to perform.

The speaker and microphone allow you to monitor the channel or to talk-and-listen.

The test set operates continuously from the charger.



SPECIFICATIONS

E1 General

Bit Error test
Drop and insert to internal test circuitry

Test Pattern Generator

Fixed, PRBS, User programmable

Transmitter

Clock source
Internal clock, Received, External
Programmable Time slot 0
Set idle channel code and ABCD bits (IDLE/NOT IDLE state)
Transmit signal can be turned ON/OFF or internally looped
Error injection

Receiver

Frequency range: 2.048 Mbit/s $\pm$ 6000 bit/s for SLE1
Auto configuration for framing and test pattern

Measurements

E1 signal level
Frequency measurement
Clock slips count
Code errors
Frame errors
Count of LOS, Loss of Sync (SYLS), LOF, AIS, FAS RAI, and MFAS
RAI seconds
Bit errors: ITU-T G.821 analysis
ITU-T G.826 measurements
ITU-T M.2100 measurements (in conformance with M.2101)
E-bit errors
Setup and test results printing
Test duration programmable
Print interval programmable
Time stamped events printing
Delay timer settable up to 99 hrs., 59 min
Audible alarm
Alarm Generation

Other Measurements

Save test results
Histograms
Propagation Delay measurements
View Received Data

Voice Frequency Capability

Talk/listen by using the built-in microphone speaker
Companding: A-law or μ -law
Monitor and CAS modes
ABCD bits display
CAS signaling monitoring (IDLE/ NOT IDLE state)
Set ABCD bits to 1 or 0 of selectable timeslot
Set CAS state IDLE/NOT IDLE
Set Idle Channel Code

SLE1-01 Clock Offset Option

Transmitter

Frequency: settable to 2.048 Mbit/s $\pm$ 24,400 ppm: 2.048MHz

Receiver

Frequency range: 2.048 Mbits/s $\pm$ 24,400 ppm

SLE1-02 VF Measurement Option

Send/Receive tone

Noise level measurement

Coder offset and peak code measurement

General

Store and recall configurations
122 x 32 dots (4 x 20 characters, 6 x 8 dots size) graphic display
screen with LCD backlight
Internal battery: NimH
Battery operation time: 4 hrs, transmitter off
Unit charging time: 7 hrs
Charger: 5V @ 2A, 90 to 265 VAC, 50-60 Hz
Printer/Communication port: RS-232, RJ11, 6-PIN asynch
Language selection: English, Italian, French, German

Environmental

Operating temperature: 0° C to 50° C
Storage temperature: -20° C to +70° C
Humidity: 5% to 90% non-condensing
Dimensions: 175 mm (l) x 75 mm (w) x 35 mm (d)
Weight: 0.4 kg (approx)

ORDERING INFORMATION

SLE1 SunLite E1 (Includes SLE1-01 and SLE1-02)



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