

SUN

Sunset E10

The Sunrise Telecom SunSet E10 is a industry-standard handheld transmission test set designed for E1 and Datacom network testing. It features comprehensive E1 transmitter and receiver capabilities, signal performance analysis, and standard telecom physical interfaces in a portable, field-ready form factor.

SPECIFICATIONS

General

Interfaces	E1 (BNC 75 , unbalanced, RJ-48 120 , balanced), RS-232 serial
Display	8-line x 40-character backlit LCD

Physical

Power Supply	Internal rechargeable NiMH battery pack, AC charger/adapter
Operating Temperature	0°C to 50°C °C
Dimensions (W×H×D)	105 × 225 × 60 mm mm
Weight	0.9 kg kg

E1 Transmitter/Receiver

Bit Rate	2.048 Mbps ± 5 ppm
Line Codes	HDB3, AMI
Framing Formats	Unframed, PCM-30, PCM-30C, PCM-31, PCM-31C
Test Patterns	PRBS (2 ¹¹ -1, 2 ¹⁵ -1, 2 ²⁰ -1, 2 ²³ -1), All 1s, All 0s, 1:1, 1:7

E1 Receiver

Input Impedance	75 , unbalanced, 120 , balanced, High Impedance (>1000)
Rx Sensitivity	0 to -43 dB

E1 Transmitter

Output Impedance	75 , unbalanced, 120 , balanced
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Measurements & Analysis

Error Analysis Standards	ITU-T G.821, G.826, M.2100
Alarms Generated/Detected	AIS, RAI (Yellow), LOS, LOF
Pulse Mask Compliance	ITU-T G.703

Environmental

Storage Temperature	-20°C to 70°C
Humidity Range	10% to 90% non-condensing

Power & Battery

Battery Type	Rechargeable battery pack (NiMH or NiCd depending on model year)
Battery Operating Time	Up to 8 hours

Transmitter

Internal Transmitter Frequency	2048 kHz $\pm$ 5 ppm
Transmitter Clock Sources	Internal, Recovered (from Rx), External (2.048 MHz or 2.048 Mbps)
Transmit Frequency Offset Range	$\pm$ 999 ppm

Receiver

Frequency Measurement Resolution	1 Hz
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Audio / Voice

Audio Monitor	Internal speaker and 2.5 mm earphone jack
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Standards & Compliance

ITU-T Recommendation Compliance	G.703, G.704, G.706, G.732, G.821, G.826, M.2100
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E1 Features

Drop and Insert Capability	Nx64 kbps (N=1 to 31) timeslot insertion and extraction
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VF Measurements

VF Tone Generation Frequency Range	200 Hz to 4000 Hz
VF Level Measurement Range	-60 dBm to +3 dBm

TECHNOLOGY

Telecommunications E1 and Datacom Field Testing

APPLICATIONS

E1 line quality, transmission, pulse shape, and jitter testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.