

JDSU SmartClass T1 Specs

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SmartClass™ T1



Key Features

- Thorough T1 testing including BERT, Loopcodes, and NIU/CSU emulation
- VT100 Emulation for access to T1, HDSL, HDSL2, HDSL4 wire performance statistics
- T-Berd advanced stress patterns, intelligent repeater loop codes, and built in BERT patterns included.
- Supports JDSU Hand Held Manager for result download and configuration management
- Lightweight, rugged, water resistant, and battery powered handheld test instrument.

Applications

- Terminate, Monitor, bridge, and local loopback modes of operation
- Full or Fractional (NX64,NX56) T1 Bert testing
- Perform VF level, frequency and VF Channel drop
- DS1 Frequency and level Measurements
- Timing Slips Analysis
- Round-Trip delay
- Pulse shape
- Jitter

The JDSU SmartClass T1 is a handheld field tester for the installation and commissioning of T1 services. An economical and easy to use point solution, the SmartClass has a Smart Auto Configure (AutoConfig) feature and large, easy to read color display that make the lightweight, rugged, tester ideal for both service provider and contractor field technicians. It also meets the needs of mobile operators in the construction of T1 backhaul infrastructure. The SmartClass T1 can be used in the Central office, in the field, and at the point of demarcation.

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Specifications

General

Overall dimensions	(H x W x D) 9.05 x 4.72 x 1.97 in 230 x 120 x 50 mm
Weight	Less than 2 lbs
Display	320x240 color display
Operating Temperature	32 to 122 F (0 to 50 C)
Storage Temperature	-40 to 167 F (-10 to 60C)
Humidity	10 to 90% relative humidity, noncondensing
AC adapter	100-220 at 60Hz or 200-240 at 50 Hz VAC to 12 VDC, 1.25 amps
Battery	AA Rechargeable NiMH
Charging time	Maximum of 5 hours from full

Transmitter Specification

Line Build Out (LBO) Level	LBO of 0, 7.5, 15.0, and 22.5 dB of cable loss at 772 kHz
LBO Accuracy	+/- 2 dB at 772 kHz relative to an LBO of 0dBsx
Timing	Internal reference clock: ± 5 ppm ± 1 ppm/year accuracy Recovered from Primary Recovered from Secondary
Line Codes	AMI or B8ZS
Error Insert Type	Bit, BPV, CRC, or Frame
Pulse Shape	With output terminated at 100 ohms resistive load and 0 dB LBO selected, the product shall meet the following: <ul style="list-style-type: none"> • ITU-T Recommendation G.703 • ITU-T Recommendation G.704 • T1.102-1993
Output Jitter	T1.102 - 1993 Table 9
T1 Connector	Two [2] RJ48 and 4 Bantam

Receiver Specifications

Termination Type	Impedance	Input Range
Bridge	> 1000 Ohms	- 6 to -35.0 dBdsx
Terminate	100 Ohms +/- 5%	+ 6 to -35.0 dBdsx
DSX-MON	100 Ohms +/- 5%	-20 to -30 dBdsx of resistive loss plus 0 to -6 dB of cable loss

Ordering Information

SCT1-P1	SmartClass T1 Package (includes unit , carry bag, USB cable, test cables, power adapter and rechargeable NiMH batteries)
SC-T1-P2-DIST	Distribution Package (includes unit , carry bag, USB cable, test cables, power adapter and rechargeable NiMH batteries)

Optional Accessories

CB-41645	RJ 48 cable 6'
CB-10616	Bantam cable 10'
CC-120101	Replacement carry bag
AC-009801	Neck Strap
CB-836463	Serial cable
SCRCARCHARGER	Car Adapter
HST-000-098-01	Strand Hook
21147883	Glove



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