JDSU

CSC-ETHTR-P3

The JDSU CSC-ETHTR-P3 (SmartClass Ethernet) is a rugged, handheld test instrument designed for the installation, commissioning, and troubleshooting of carrier Ethernet and enterprise networks up to 1 Gbps. It supports both electrical and optical physical layers, offering comprehensive traffic generation, RFC 2544 testing, and physical layer cable diagnostics.

SPECIFICATIONS

General

Interfaces	10/100/1000Base-T (RJ-45), 100/1000Base-X (SFP), USB client
Display	Monochrome LCD with backlight

Physical

Power Supply	Rechargeable NiMH battery pack, standard AA dry cells, or external AC power adapter
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	230 x 120 x 70 mm mm
LED Indicators	Power, Link, Frame, Sync, Error, Tx/Rx
Keypad	Tactile dome keypad with dedicated navigation keys

Core Signal & Electrical Performance

Line Rates Supported	10/100/1000 Mbps (Electrical), 100/1000 Mbps (Optical)

Measurement Capabilities & Timing

Traffic Generation	Constant, Ramp, Burst up to full line rate (1 Gbps)
Standardized Test Suites	RFC 2544 (Throughput, Latency, Frame Loss, Back-to-Back)
Loopback Modes	Layer 1, Layer 2, Layer 3, Layer 4 (including MAC and IP swap)
Frame Size Range	Up to 9000 bytes (Jumbo frames support)
Ping and Traceroute	Supported (IPv4)
Cable Diagnostics	Distance to fault, cable length, polarity, MDI/MDI-X detection
Optical Diagnostics	SFP Digital Diagnostic Monitoring (DDM) for transceiver power levels

Physical & Mechanical

Form Factor	Handheld

Traffic Generation & Analysis

Multi-Stream Traffic Generation	Single stream

Protocol Support

VLAN Support	Up to 2 VLAN tags (Q-in-Q stacked)
MPLS Support	Up to 2 labels
IP Versions Supported	IPv4 and IPv6
Ethernet OAM Support	IEEE 802.3ah, IEEE 802.1ag, and ITU-T Y.1731

Physical Interfaces

Electrical Interface	RJ-45 (10/100/1000Base-T)
Optical Interface	SFP (100Base-FX, 1000Base-X)

Performance Testing

Bit Error Rate Testing (BERT)	Layer 1 to Layer 4 with PRBS and user-defined patterns

Environmental

Storage Temperature	-20 to 60 °C
Operating Humidity	10% to 90% RH, non-condensing

Power Supply

Battery Options	Rechargeable NiMH battery pack or 8 AA field-replaceable batteries

TECHNOLOGY

Ethernet Testing

APPLICATIONS

Installation, maintenance, and troubleshooting of Ethernet and IP services

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