

FLUKE

DSX2-8000

The Fluke Networks DSX2-8000 CableAnalyzer is a premier copper cabling certification solution designed for installers and network owners. Part of the Versiv cabling certification product family, it provides rapid, precise testing up to Category 8 and Class I/II standards with Level 2G / Level VI accuracy. It features dual-band Wi-Fi, the LinkWare Live cloud testing workflow platform, and advanced diagnostics like High Definition Time Domain Crosstalk (HDTDX) and Reflectometry (HDTDR) to accelerate project execution and troubleshooting.

SPECIFICATIONS

General

Interfaces	USB 2.0 Micro-B, USB 2.0 Type A, RJ-45 Ethernet (10/100 BASE-TX), Wi-Fi (IEEE 802.11 a/b/g/n dual-band)
Display	5.7 in (14.5 cm) capacitive LCD touchscreen with 800 x 480 resolution

Physical

Power Supply	7.2 V Lithium-ion battery pack; External AC adapter: 100 V to 240 VAC, 50-60 Hz input, 15 VDC, 2 A output
Operating Temperature	0 °C to 45 °C °C
Dimensions (W×H×D)	133.3 mm × 66.7 mm × 279.4 mm (with DSX-8000 module and battery installed) mm
Weight	1.28 kg kg

Core Signal and Electrical Performance

Frequency Range	1 MHz to 2000 MHz
ANSI/TIA Accuracy Level	Level 2G (ANSI/TIA-1152-A)
IEC Accuracy Level	Level VI (IEC 61935-1)
Supported Cable Types	Shielded and unshielded twisted pair (UTP, ScTP, FTP, SSTP)
Input Overvoltage Protection	Protected against continuous telco voltages and 100 mA over-current

Measurement Capabilities and Timing

Autotest Speed - Category 6A	8 seconds
Autotest Speed - Category 8	16 seconds
Maximum Cable Length (Propagation Delay)	150 m (490 ft)
Length Resolution	0.1 m
Propagation Delay Resolution	1 ns
Delay Skew Resolution	1 ns
DC Loop Resistance Range	0 Ω to 540 Ω
DC Loop Resistance Resolution	0.1 Ω
DC Resistance Unbalance Resolution	0.1 Ω
NVP Range	50% to 99.9%
Diagnostics / Troubleshooting	HDTDX (High Definition Time Domain Crosstalk), HDTDR (High Definition Time Domain Reflectometry)

Connectivity, Ports, and Interfaces

USB Ports	1 x Type A (Host), 1 x Micro-B (Device)
Auxiliary Interface Ports	3.5 mm stereo headset jack, RJ-45 Ethernet port

User Interface and Software Control

Internal Storage Capacity (with graphs)	5,000 results
Internal Storage Capacity (without graphs)	12,000 results
Cloud Integration	LinkWare Live cloud service integration via Wi-Fi or Ethernet
PC Analysis Software	LinkWare PC software
Supported Languages	English, French, German, Spanish, Portuguese, Italian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Russian

Power and Electrical Specifications

Battery Chemistry	Lithium-ion
Typical Battery Runtime	8 hours
Battery Recharge Time	4 hours (from 10% to 90% charge, with tester powered off)

Physical and Mechanical Attributes

Enclosure Design	Rugged overmold design for heavy-duty field environments
------------------	--

Environmental and Compliance Standards

Storage Temperature Range	-20 °C to +60 °C
Relative Humidity Range	0% to 90% (non-condensing)
Maximum Operating Altitude	4,000 m (13,123 ft)
Maximum Storage Altitude	4,600 m (15,000 ft)
Calibration Interval	1 year (recommended)
Vibration Standard Compliance	Meets MIL-PRF-28800F Class 3 requirements

Configurations, Options, and Accessories

TIA Cabling Standards	Category 3, 4, 5, 5e, 6, 6A, 8 per TIA-568.2-D
ISO/IEC Cabling Standards	Class C, D, E, Ea, F, Fa, I/II per ISO/IEC 11801

Measurements

DC Loop Resistance Accuracy	$\pm (1 \Omega + 1 \%)$
DC Resistance Unbalance Accuracy	$\pm (0.15 \Omega + 1 \%)$
Shield Continuity Test Method	Patented AC measurement (localizes shield faults with distance)
TCL and ELTCTL Measurement Support	Up to 2000 MHz
CDNEXT and CMACRF Measurement Support	Up to 2000 MHz
Resistance Unbalance Capability	Measures within-pair and pair-to-pair DC resistance unbalance

Wireless Connectivity

Integrated Wi-Fi	IEEE 802.11 a/b/g/n (2.4 GHz and 5 GHz)
------------------	---

Power

AC Charger Input	100 V AC to 240 V AC, 50 Hz to 60 Hz
AC Charger Output	15 V DC, 2 A

Environmental

Pollution Degree Rating	Pollution Degree 2
Shock and Vibration standard	Meets MIL-PRF-28800F Class 3 requirements

Performance

Autotest Speed - Category 5e/6	7 seconds
--------------------------------	-----------

Connectivity & Communication

Talkset Interface	Full-duplex digital audio over twisted pair
-------------------	---

Measurement Capabilities

Supported Coaxial Impedance	50 Ω , 75 Ω , 93 Ω (with optional adapters)
Propagation Delay Range	0 ns to 4000 ns (dual-ended) / 0 ns to 4000 ns (single-ended)
Delay Skew Range	0 ns to 125 ns

Display

Display Resolution	800 × 480 pixels
--------------------	------------------

Compliance & Safety

Safety Compliance	IEC 61010-1: Overvoltage Category None, Pollution Degree 2; IEC 61010-30: 30 V rms max
EMC Compliance	IEC 61326-1: Portable; CISPR 11: Group 1, Class A; FCC Part 15 Class A

Power & Battery

Battery Charging Temperature Range	0 °C to 40 °C
------------------------------------	---------------

Physical & Durability

Adapter Connector Life	Typical > 5,000 cycles
------------------------	------------------------

TECHNOLOGY

Copper Twisted Pair Cabling Certification

APPLICATIONS

Category 5e/6/6A/8 and Class C/D/E/Ea/F/Fa/II/III cabling certification

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