

JDSU

T-BERD 6000A

The JDSU (now VIAVI Solutions) T-BERD 6000A (MTS-6000A) is a highly compact and lightweight modular optical test platform designed for the installation and maintenance of fiber optic networks. It supports a wide range of test modules, including OTDR, PMD/CD, OSA, and transport testing solutions (Ethernet up to 100G, SONET/SDH, OTN), featuring a high-resolution 8.4-inch color touchscreen and robust connectivity.

SPECIFICATIONS

General

Interfaces	1x RJ45 10/100/1000 Mbps Gigabit Ethernet, 2x USB 2.0 Host ports, 1x USB 2.0 Device client port, 1x Serial/RS-232, 1x 3.5 mm headset/audio jack
Display	8.4-inch color TFT touchscreen, SVGA (800 x 600 resolution)
Operating System	Linux

Physical

Power Supply	AC/DC adapter: Input 100-240 V AC (50-60 Hz), Output 19 V DC / 3.1 A
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	285 mm × 195 mm × 93 mm (11.2 in × 7.7 in × 3.7 in) mm
Weight with Battery	2.4 kg (5.3 lb) mainframe only, without module

Platform Architecture

Mainframe Architecture	Modular, single slot for test modules
Display Size	8.4 in (21.3 cm)
Display Resolution	SVGA, 800 x 600 pixels
Touchscreen Technology	Resistive touchscreen
Internal Storage Capacity	100 MB minimum (internal flash memory)
Number of Module Slots	1 physical slot (can accommodate single-depth and double-depth modules)
Integrated Audio	Built-in speaker and 3.5 mm headset/microphone jack
Real-time Clock	Yes

Built-In Optical Tools

Integrated Power Meter Wavelength Range	800 to 1650 nm (optional built-in tool)
Integrated Power Meter Range	-55 to +10 dBm (Standard) or -50 to +26 dBm (High-Power option)
Visual Fault Locator Wavelength	635 nm ±15 nm (optional built-in tool)
Visual Fault Locator Output Power	<1 mW (Class 2 laser safety)
Fiber Inspection Probe Compatibility	VIAVI / JDSU P5000i digital analysis probe via USB

Measurement Capabilities & Modules

Supported OTDR Module Series	JDSU/VIAVI 8100 series (including VL, VLR, UHD configurations)
Supported Dispersion Testing	JDSU PMD (Polarization Mode Dispersion) and CD (Chromatic Dispersion) modules
Supported Optical Spectrum Analysis	JDSU/VIAVI OSA-110M module
Supported Transport Testing Rates	10M to 100G Ethernet, OTN, SDH/SONET (using CSAM / MSAM modules)

Connectivity & Interfaces

Ethernet Port Type	1x RJ45 10/100/1000 Mbps Gigabit Ethernet
USB Host Ports	2x USB 2.0
USB Client Port	1x USB 2.0 (for PC connection and remote control)

Software & Data Storage

OTDR Trace File Format	Bellcore/Telcordia GR-196-CORE OTDR standard format (SR-4731)
Remote Control Protocols	TCP/IP, VNC, web browser interface

Power & Battery

AC/DC Adapter Input Voltage	100 to 240 V AC
AC/DC Adapter Input Frequency	50 to 60 Hz
Battery Type	Rechargeable Lithium-Ion (Li-ion) pack
Battery Operating Time	Up to 8 hours (dependent on module configuration and usage)

Environmental

Storage Temperature	-20 to +60 °C (-4 to 140 °F)
Relative Humidity	Up to 95% non-condensing
Drop Test Standard	76 cm (30 in) on all faces and corners (compliant with GR-196-CORE)

Power

Battery Charging Time	< 3 hours (with instrument switched off)
AC/DC Adapter Output Voltage	19 V DC (90 W)

Interfaces

Wireless Connectivity	Optional Wi-Fi (802.11 b/g/n) and Bluetooth
Audio Headset Interface	3.5 mm stereo jack (microphone and speaker support)

Compliance

Laser Safety	Class 1 (21 CFR 1040.10 / IEC 60825-1) for OTDR; Class 2 (IEC 60825-1) for optional VFL
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Integrated Power Meter

Optional Power Meter Connector	2.5 mm universal UPP adapter
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Visual Fault Locator

Optional VFL Connector	2.5 mm universal UPP adapter
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Compliance & Certifications

Shock and Vibration Resistance	Meets MIL-PRF-28800F Class 2 requirements
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TECHNOLOGY

Fiber Optic Testing & Modular Platform

APPLICATIONS

Fiber Characterization, OTDR, PMD/CD, OSA, Ethernet, and SDH/SONET Network Field Testing

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