

T-BERD®/MTS-6000A

Compact Network Test Platform



Key Benefits

- Improve the application module free space with visual fault locator and lost test set functions available on the base unit
- Next-generation Carrier Ethernet test solution
- Decrease OpEx and increase field productivity when combined with StrataSync™ cloud-enabled software that displays assets, modules, versions, and locations; maintains accurate instrument configuration and setup; and provides visibility into instrument utilization and test-data management
- Future-proof and highly modular for greater productivity

Key Features

- Compact, lightweight, and highly integrated platform
- Multi-layer network solution from physical to services layer
- Built-in VFL, power meter, LTS, ORL, talk set, and video inspection scope options
- Over 40 application modules available for physical test on single- and multi-mode fiber
- Multi-service capability for Ethernet and SONET/SDH tests
- Modular form factor enables field upgrade of test capabilities by adding or replacing PIMs and optics on multi-services application module

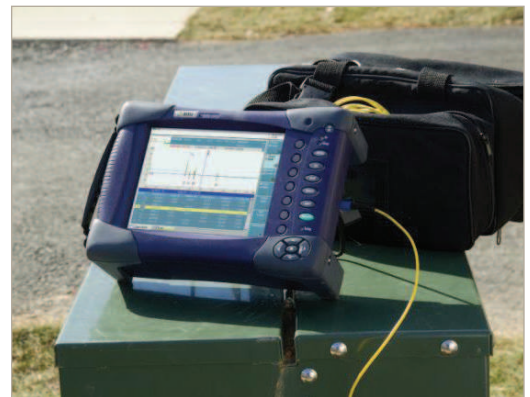
Applications

- Performs two independent, parallel Ethernet tests from a dual-port chassis
- Performs bidirectional multimode and single-mode OTDR and optical loss tests
- Performs FTTx/PON and CWDM OTDR tests
- Performs 10G, 10GE, and 40G fiber dispersion testing (PMD/CD/AP)
- Tests 10 GE LAN- and WAN-PHY at 850, 1310, and 1550 nm
- Tests dual- and single-port 10 Mbps to 1 GE
- Tests SONET/SDH at OC-3/STM-1 through OC-192/STM-64 line rates
- Tests TCP/UDP at 10 Mbps to 10 Gbps with stateful emulation
- Tests IP video at 10 Mbps to 10 GE line rates

The JDSU T-BERD/MTS-6000A is a highly integrated test platform for all fiber network life cycle phases. It provides field service technicians with the highest levels of performance and upgradeability on the market today.

The modular design of the T-BERD/MTS-6000A offers extensive testing functionality with more than 40 different modules supporting a wide range of applications. Its versatility lets technicians standardize with one type of test equipment and later introduce new testing capabilities in the field without additional training or device costs.

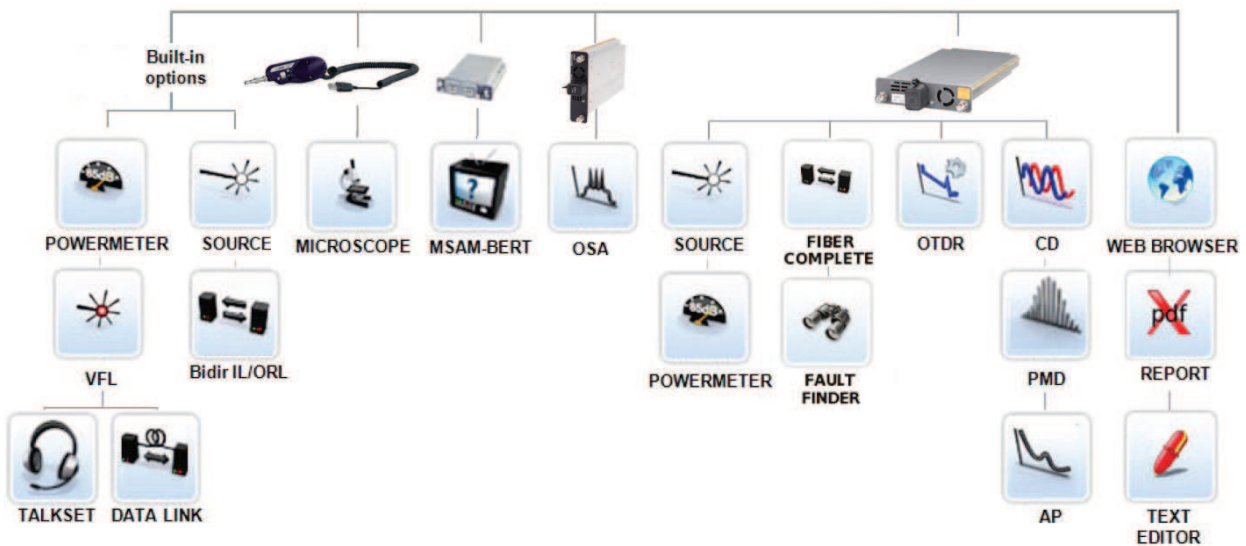
With field applications used to service Metro Core telecom networks, wireless/cable-switching centers, backhaul networks, government telecommunications and network-equipment-manufacturer field installation and support groups, the multi-services application and fiber optics modules are the latest innovation for the family of award-winning, industry-leading T-BERD/MTS test solutions. A powerful user interface helps technicians quickly set up, run, and evaluate tests and troubleshoot problems, reducing operational expense.





Ideal for Field Testing

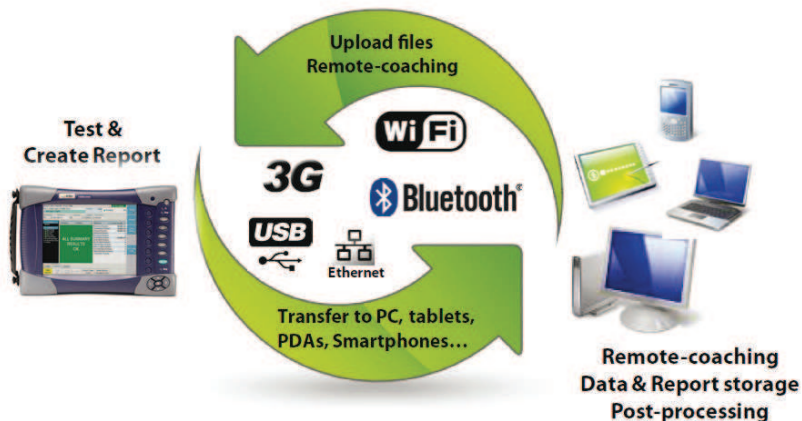
The T-BERD/MTS-6000A is a highly integrated platform with a single module slot and extended internal memory, up to 1 gigabyte. The platform's intuitive graphical user interface (GUI) is a large 8.4-inch transreflective color touch screen display to improve viewing in any condition. The high-capacity Lithium ion extends battery life. Other features include a video inspection scope (via USB port), and built-in optical test functions, such as a visual fault locator (VFL), power meter, optical return loss (ORL) and loss test sets (LTS).



Boosted Productivity with Seamless Data Workflow

The T-BERD/MTS-6000A also has a built-in optical talk set option for communicating with and controlling remote units using the fiber network under test. Remotely control, data, and setup uploads/downloads and transfer reports using USB, Bluetooth, or via WiFi, Ethernet, or 3G networks.

SmartAccess Anywhere™ also enables technical support with remote access from anywhere.



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Install and maintain fiber networks

- 1 Microphone
- 2 Molded Bumpers
- 3 Soft Keys (Context Sensitive)
- 4 8.4 in Indoor/Outdoor TFT Color Display, Touchscreen
- 5 Direct Access Keys and Start/Stop
- 6 Navigation Key Pad
- 7 Removable High-Capacity Li-Ion Battery (11-hour battery life)
- 8 AC Input
- 9 USB Ports (Video Inspection Scope Option)
- 10 Visual Fault Locator
- 11 Power Meter
- 12 High-Speed Ethernet Port
- 13 Optical Talk Set/Light Source/ORL
- 14 Headset





StrataSync Empowers Your Assets

StrataSync is a hosted, cloud-based solution that lets providers manage assets, configurations, and test data for JDSU instruments to ensure that all instruments have the latest software and options installed. StrataSync manages inventory, test results, and performance data anywhere with browser-based ease to improve technician and instrument efficiency. StrataSync manages and tracks test instruments, collects and analyzes results from the entire network, and informs and trains the workforce.

Specifications (Typical 25°C)

Environmental

Operating temperature range (no options)	-20 to +50°C (-4 to 122°F)
Operating temperature range (all options)	0 to +40°C (32 to 104°F)
Storage temperature range	-20 to +60°C (-4 to 140°F)
Humidity, non-condensing	95%

Base Unit Optical Interfaces (optional)

Power Meter

Power level	+10 to -55 dBm
Calibrated wavelengths	850, 1310, and 1550 nm
Connector type	Universal push/pull (UPP)

Talk Set

Wavelength	1550 nm
Dynamic range	>45 dB range
Function	With data/file transfer
Laser safety	Class 1M laser
Connector type	Field interchangeable

Optical Return Loss

Selectable wavelength	1310/1550 nm
Measurement range	0 to 45 dB
Measurement uncertainty	±1 dB
Display resolution	0.01 dB

Visual Fault Locator (VFL)

Wavelength	635 nm ±15 nm
Output power level	<1 mW
Laser safety	Class 2 laser
Connector type	Universal push/pull (UPP)

Continuous Wave (CW) Light Source

Wavelengths (selection)	1310, 1550, and 1625 nm
Output power level	-3.5 dBm
Stability in 15 min	±0.02 dB
Stability in 8 hrs	±0.2 dB
Laser safety Class	1M laser
Connector type	Field interchangeable

Video Inspection Scope (via USB)

Magnification	250X and 400X, through the USB port
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General

Display

Touchscreen, TFT color, 8.4 in, LCD 800 x 600, high visibility

Storage and I/O Interfaces

Internal memory	Minimum 1 GB
2x USB, 1x RJ45 Ethernet	

Power Supply

Battery type	Standard removable Li-ion batteries
AC/DC adapter	
Input 100-240 V, 50-60 Hz, Output 19 VDC/3.1 A	

Operation time Up to 11 hours with standard display, Telcordia GR-196-CORE (depending on the module)

Size and Weight

Mainframe with one plug-in module and battery	
(L x H x W)	285 x 189 x 95 mm (11.22 x 7.44 x 3.74 in)
Mainframe only (without battery and module)	
	2.4 kg (5.3 lb)
Mainframe with one plug-in module and battery	
	3.4 kg (7.5 lb)

Ordering Information

Base Instrument

Part Number	Description
ETB6000AT/EM6000AT	T-BERD/MTS-6000A platform with high-visibility touchscreen color display and battery pack
E80VFL	VFL with 2.5 mm UPP
E80TS	Optical talk set with UPP
EE80PM	Optical power meter with UPP
E8036LTSTS	Optical loss test set with talk set (1310/1550/1625 nm)
E8026LTSTSORL	Combined LTS and ORL with talk set (1310/1550 nm)

E80bidir	Bidirectional OTDR acquisition option for single-mode module
EDFSCOPE5KI	USB 2.0 digital video scope kit (P5000i) including 7 tips and soft case

Accessories

E80lighter	Cigarette lighter power adapter
E60LIHP1	Additional high power Li Ion rechargeable battery
ESCASES	Wrap-around carrying case for T-BERD/MTS-6000 platform

Application Software

EOF5100	Optical FiberTrace software (for post-analysis)
EOF5200	Optical FiberCable software (for acceptance report generation)

Optical connectors for the loss test set and talk set options must be the same type

Field replaceable connectors: EUNIPCF, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIAPCF, EUNIAPCSC, EUNIAPCST, EUNIAPCDIN, EUNIAPCLC

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