

# T-BERD®/MTS-6000 Platform

## Compact Optical Test



### Key Benefits

- Perform full fiber characterization measurements
- Easy to use for novices yet fully featured for experts
- Generate proof-of-performance reports
- 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 highly integrated platform
- More than 40 application modules already supported for multimode and single-mode
- Built-in VFL, power meter, LTS, ORL, talk set, and video inspection scope options
- Choose from IL/ORL, OTDR, PMD, CD, AP, and/or OSA plug-ins
- Exceeds Telcordia specifications for ruggedness, drop testing, and extended battery life

The JDSU T-BERD/MTS-6000 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-6000 offers extensive testing functionality with more than 40 different fiber 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.

The T-BERD/MTS-6000 is compatible with existing JDSU fiber modules, so technicians can interchange its plug-in modules in the field with the T-BERD/MTS-8000 Scalable Optical Test Platform without additional tools.

### Applications

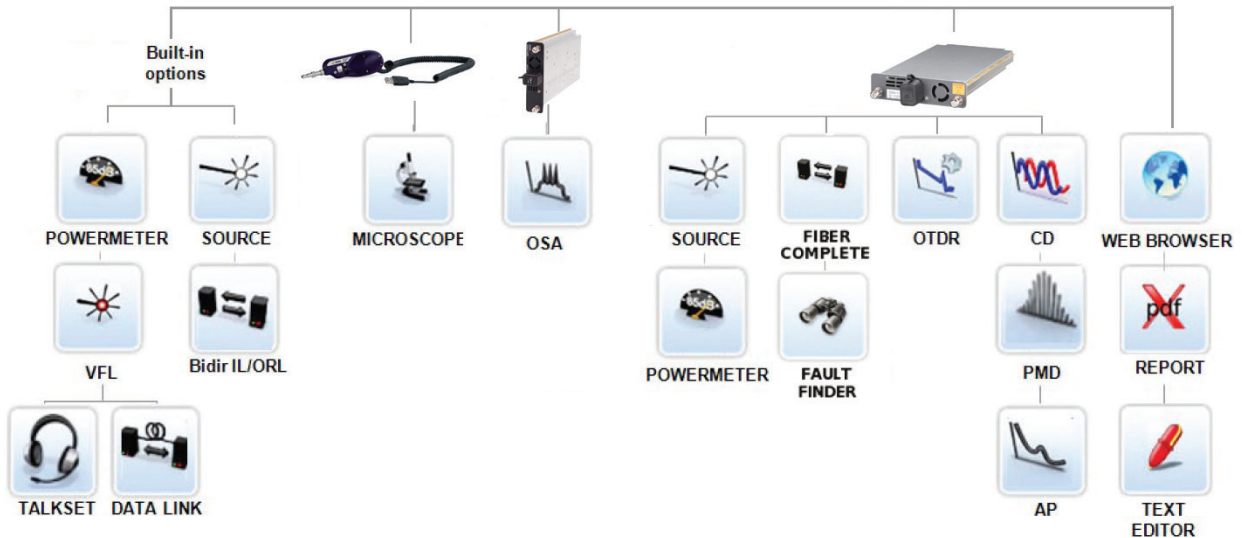
- Perform multimode and single-mode OTDR and optical loss tests (bidirectional)
- Find faults and identify traffic
- Test FTTx/PON and CWDM networks
- Perform OSA and fiber dispersion testing (PMD/CD/AP) for 10G, 10GE, and 40G





### Ideal for Field Testing

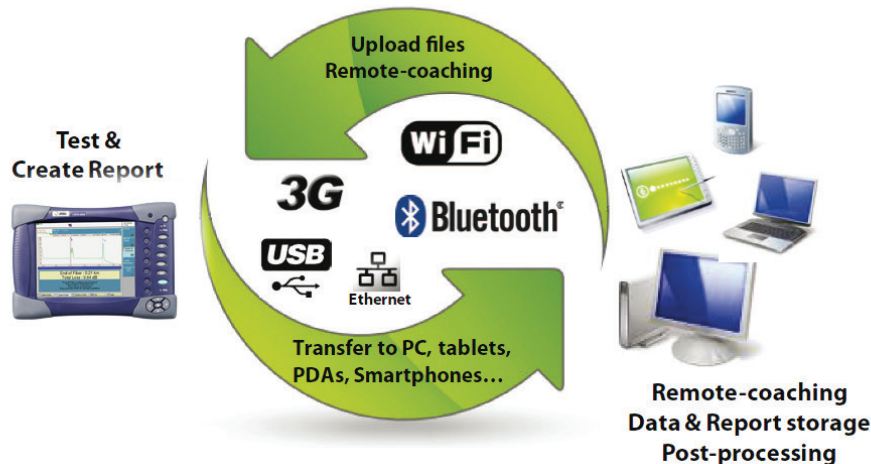
The T-BERD/MTS-6000 is a highly integrated platform with a single module slot and an option to extend internal memory up to 1 gigabyte. The platform's intuitive graphical user interface (GUI) is a large 8.4-inch transreflective color display (with an optional touch screen) to improve viewing in any condition. The high-capacity Lithium ion battery adds extended life. Other features include an optional video inspection scope (via USB port), and optional 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-6000 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)

#### General

##### Display

TFT color, 8.4 in LCD, 800 x 600, high-visibility (standard)  
 Touchscreen, TFT color, 8.4 in LCD, 800 x 600, high-visibility (optional)

##### Storage and I/O Interfaces

Internal memory 1000 test results  
 Extended memory (optional) Minimum 1 GB (optional)  
 2x USB V1.1, 1x RJ45 Ethernet

##### Power Supply

Battery type Standard removable Li ion batteries  
 AC/DC adapter Input 100–240 V, 50–60 Hz, Output 19 V DC/3.1 A  
 Operation time Up to 11 hrs with standard display, Telcordia GR-196-CORE

##### 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)

##### Environmental

Operating temperature range on mains (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 –60 dBm  
 Calibrated wavelengths 850, 1310, and 1550 nm  
 Connector type Universal push/pull (UPP)

##### Talkset

Wavelength 1550 nm  
 Dynamic range 45 dB  
 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 dB to 45 dB  
 Measurement uncertainty ± 1 dB  
 Display resolution 0.01 dB

##### Visual Fault Locator

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

##### Continuous Wave 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

### Ordering Information

#### Base Instrument

Part Number	Description
ETB6000/EM6000	T-BERD/MTS-6000 platform with high-visibility color display and battery pack
ETB6000T/EM6000T	T-BERD/MTS-6000 platform with high-visibility touch screen color display and battery pack
E60EXTMEM	Extended memory (1 GB)
E80VFL	VFL with 2.5 mm UPP
E80TS	Optical talk set
E80PM	Optical power meter with UPP connector (2.5 mm provided as standard)
E8026LTSORSOL	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
E60Lilon	Additional Li Ion rechargeable battery
ESCASE5	Wrap around carrying case for 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 of the same type

Field replaceable connectors: EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIPAPFC, EUNIPAPSC, EUNIPAPCST, EUNIPAPCDIN, EUNIPAPCLC

Please refer to the separate module data sheets for detailed specifications.

### Test & Measurement Regional Sales

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