T-BERD®/MTS-6000A Compact Network Test Platform

Multilayer Solution for Network Installation and Maintenance

Key Benefits

- Scalable multitest platform evolves with your network and associated test requirements (physical to service layer)
- Optimized for workflow and cloud integration (Ethernet, WiFi, Bluetooth, 3G/4G, LTE, and beyond)
- Future-proofed, highly modular platform with field-upgradeable options and modules increases productivity
- StrataSync™ cloud-enabled software option increases field productivity

Key Features

- Compact, lightweight, modular, and highly integrated platform
- Multilayer network solution for testing the physical through services layers
- Field-upgradeable VFL, power meter, talk set, and video inspection scope options
- Over 40 physical single-mode or multimode fiber test application modules available
- Multiservice capability for Ethernet and SONET/SDH tests
- Upgrade testing capabilities for this highly modular two-dimensional form factor with interchangeable module carriers, application modules, and platform options

Applications

- Perform bidirectional OTDR and loss test set measurements
- Perform 10 G, 10 GE, and 40 G fiber dispersion testing (PMD/CD/AP)
- Optical spectrum analyzers for use installing and maintaining CWDM/DWDM networks
- Test 10 GE LAN- and WAN-PHY at 850, 1310, and 1550 nm

Keep Ahead of the Telecommunications Technology Curve

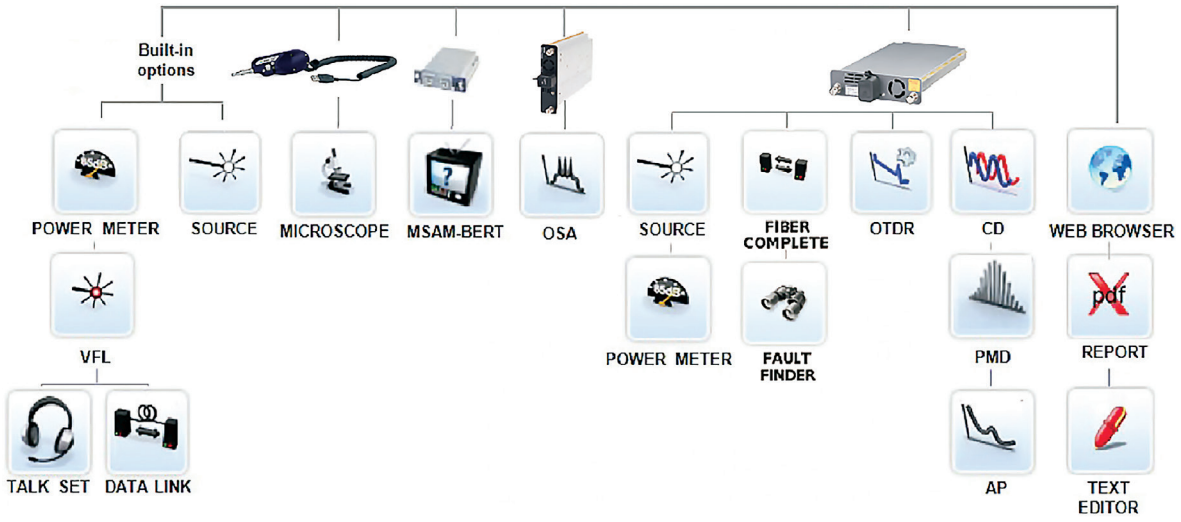
The highly integrated, modular JDSU T-BERD/MTS-6000A (V2) test platform can be used during all fiber network life-cycle phases. It offers field service technicians the greatest performance and versatile field upgradeability available today. The platform can be equipped with various options, such as a SATA hard disk, WiFi, Bluetooth, 3G/4G, LTE connectivity, and VFL/power meter/talk set, or other useful capabilities.

The flexibility of interchangeable module carriers and various plug-in modules let users create a platform that meets today's specific testing needs and yet it can evolve seamlessly to meet tomorrow's ever-changing network requirements.

Portable and upgradeable platform with interchangeable test modules increases technician productivity

Scalable Equipment is Ideal for Field Testing

The test applications in the highly integrated, compact, modular T-BERD/MTS-6000A (V2) platform's scalable, single-module carrier can expand easily to add new capabilities for current and future network testing needs. The platform's 8-inch color touch screen display and intuitive graphical user interface (GUI) improves viewing in any conditions. Its high-capacity Lithium-ion (LiON) battery extends life when used with high-powered modules. Other features include a video inspection scope (via USB port) and field-upgradeable optical test functions, such as visual fault locator (VFL), power meter, and optical talk set.

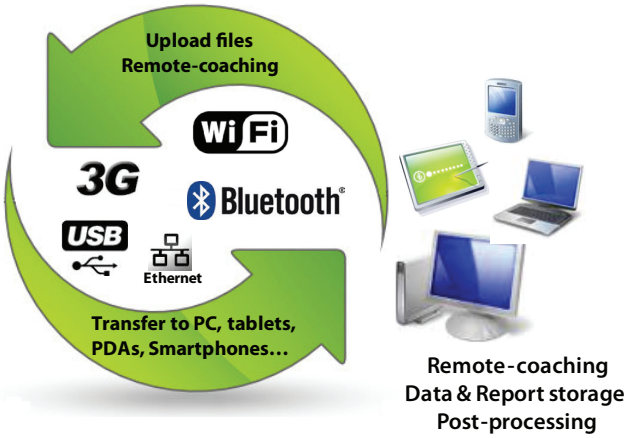


Boost Productivity with Seamless Data Workflow

The T-BERD/MTS-6000A V2 can store media to its internal memory, SD card, USB dongle, or an optional 100 GB SATA hard disk. Users in secure environments can also store data/setups to a removable hard disk.

The platform also has field-upgradeable options for quick and easy remote control, as well as data/reports and setup upload/downloads using USB, Bluetooth, or via WiFi, Ethernet, or 3G/4G/LTE networks.

SmartAccessAnywhere offers technical support with remote access from anywhere.



Designed for Modularity and Connectivity

1. AC/DC input
2. Stylus
3. Visual fault locator (VFL) option
4. Power meter option
5. Optical talk set option
6. SD card
7. RS422/GPS
8. 1 GE port
9. Two USB 2.0 ports
10. Headset jack
11. Mini USB 2.0 port
12. On/Off
13. Loudspeaker
14. 8-inch indoor/outdoor color TFT touch screen display
15. Direct access keys and Start/Stop
16. Navigation keypad
17. Plug-in module
18. E6100 complete carrier module
19. Hard disk drive option (inside unit)
20. WiFi/Bluetooth option (inside unit)
21. Battery door

A Module Carrier for Every Testing Need

The multidimensional design of the T-BERD/MTS-6000A (V2) provides optimal configuration flexibility with extended battery life. The E6100 module carrier is best suited for fiber applications; whereas, the high-powered battery in the E6200 module carrier extends battery life when used with the carrier Ethernet (MSAM) or other intensive fiber applications.

Back of the module carrier where other modules are attached

E6100 Fiber module carrier

E6200 MSAM and Fiber module carrier

StrataSync™ ENABLED

Empower Your Assets with StrataSync

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)

Platform	Description
Display	8 in TFT color touch screen, LCD 800x600, with high-visibility option
I/O interfaces	2 USB 2.0 ports 1 mini-USB 2.0 port RJ45 LAN 10/100/1000 Mbps 1 RS422 interface Built-in Bluetooth (optional) Built-in WiFi 802.11 b/g/n (optional) 1 audio jack 1 micro SD interface
Internal memory	2GB (128MB for storage)
Power Supplies	
Battery type	Standard removable LiON batteries
AC/DC adapter	input 100–240 V, 50–60 Hz, Output 19 V DC/4.7 A

Size	
Mainframe with one 6100 module carrier and battery (LxHxW)	290 x 188 x 97 mm (11.5 x 7.4 x 3.8 in)
Weight	
Mainframe only (without battery and module	2.4 kg (5.3 lb)
Mainframe with one 6100 module carrier and battery	3.4 kg (7.5 lb)
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	–20 to +60°C (–4 to 140°F)
Humidity	0 to 95% noncondensing

Base Unit Optical Interfaces (optional)	
Power Meter[1]	
Calibrated wavelengths	850, 1310, 1490, 1550, 1625 nm
Wavelength range	800 to 1650 nm in 1 nm increments
Accuracy[2]	±0.2 dB
Measurement range[3]	+10 to –60 dBm
Maximum resolution	0.01 dB/0.01 nW
Connector type	Universal push/pull (UPP)
Talk Set	
Dynamic range	45 dB
Function	Telephone, data transfer
Laser class	Class 1
Connector type	Universal push/pull (UPP)
Visual Fault Locator (VFL)	
Wavelength	650 nm
Emission mode	CW, 1 Hz
Laser class	Class 2 as per standards EN60825-1 and FDA21 CFR Part 1040.10

1. At 25°C after 20 minutes for stabilization and after zero setting
2. At calibrated wavelength (except 1650 nm)
3. –45 dBm from 800 to 1650 nm

Ordering Information

Base Instrument

Description	Part Number
T-BERD/MTS-6000A V2 platform with color touch screen display	ETB6000AV2S/ EM6000AV2S
T-BERD/MTS-6000A V2 platform with high visibility color touch screen display	ETB6000AV2M/ EM60000AV2M
Single fiber optic module carrier	E6100
Single MSAM or fiber optic module carrier	E6200
Built-in optical power meter and VFL with 2.5 mm UPP connectors	E80EPMVFL
Built-in optical talk set (adapter to be configured)	E80ETS
Built-in optical talk set (adapter to be configured) and optical power meter (2.5 mm UPP connector)	E80ETSPM
Built-in optical talk set (adapter to be configured), optical power meter, and VFL (2.5 mm UPP connectors)	E80ETSPMVFL
Built-in WiFi option	E60V2WIFI
Built-in Bluetooth option	E60V2BLUE
Additional high-power LiON rechargeable battery	E60LIHP1
100 GB SATA hard disk option (required for Transport applications)	E60V2HDISK

Accesories

Description	Part Number
Cigarette lighter power adapter	E80lighter
Wrap-around carrying case for 6000A (V2)	ESCASE6KV2
Soft case	E40SCASE1
Application Software	EOFS100
Optical FiberTrace 2 software (for post-analysis)	EOFS200

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

Field-replaceable connectors: EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIAPCFC, EUNIAPCSC, EUNIAPCST, EUNIAPCDIN, and EUNIAPCLC

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