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

Key Benefits

- **Greater usability and smaller footprint optimizes your investment**
  - Get unmatched flexibility with over 100 available test applications
  - Service providers and NEMs choose this modular solution for turning up 40 G networks, conducting 400 G system trials, and more

- **Cloud-enabled benefits**
  - Empower assets and data results with StrataSync™
  - Access the cloud via WiFi or 4G LTE
  - Tie GPS coordinates to the tests

- **Investment protection**
  - Compatible with more than 80 modules and future ready
  - Add optical options at any time

Applications

- Compact solution for installation, maintenance, and troubleshooting of optical networks
- Optical connector inspection and full fiber characterization with OTDR, IL, ORL, CD, PMD, and AP
- WDM/ROADM with in-band OSA and high-resolution OSA
- Ethernet 10 Mbps – 10 GE (Layers 1-4)
- Fibre Channel 1, 2, 4, 8, and 10 G
- eNode B CPRI and OBSAI fronthaul interfaces
- TDM/PDH/SDH/SONET 1.5 Mbps – 10 Gbps
- OTN (2.7 – 112 Gbps)
- TrueSpeed automated RFC 6349 TCP throughput test

The JDSU T-BERD/MTS-6000A (V2) is the industry’s most compact, lightweight test solution for modern and future high-speed transmission network deployments.

This installation and maintenance platform empowers field technicians with its uniquely combined physical, optical, and transport/Ethernet testing capabilities.

The modular design of the T-BERD/MTS-6000A gives users extensive test functionality over multiple network layers with its automated TrueSpeed™ and RFC 6349 testing technology.

T-BERD/MTS Family

The T-BERD/MTS-6000A is part of the T-BERD/MTS family of test platforms that focus on the entire service life cycle, from installation to troubleshooting and maintenance. For decades, the T-BERD/MTS product line has built a solid and trusted worldwide reputation based on cutting-edge design and performance.
Cloud-enabled benefits ensure future support for your testing investment

- Use StrataSync to manage cloud-enabled assets, configurations, and test-data
- Through remote access, experts can troubleshoot complex field issues with Ethernet, WiFi, 4G, and LTE
- Certify your measurements with GPS coordinates

Protect your investment by adding new modules/options, ensuring backward module compatibility

- Works with last-generation modules and former T-BERD/MTS-6000/6000A (V1) modules
- Choose from a variety of mainframe options at any time (PM/VFL/talk set and others) for field installation

Improve your field operations with continued improvements to an already-proven solution

- Boots up fast
- Latest lithium polymer (LiPoly) battery technology increases battery life for better field autonomy
- 100 G SATA hard disk stores thousands of reports
- Large 8-inch high-visibility touch screen improves use in both indoor and outdoor lighting conditions
More than 20 Optical Test Applications

Lifetime connector performance
- Eliminate the guesswork with onboard connector inspection PASS/FAIL analysis.
- Certify compliance to industry IEC standards or specifications.

Dispersion
Qualify your network’s suitability for high-speed transmission with a combined CD, PMD, and AP test module compatible with all types of networks.

OTDR, loss, and return loss
- Choose the right OTDR solution to test ultra-long haul, metro, CWDM, access, and FTTx/PON networks.
- Configure the number of wavelengths that best fit your test needs.
- Combine multi-wavelength OTDRs to turn up CWDM networks.
- Add the data link function to perform automated bidirectional acquisitions.
- Choose all-in-one bidirectional IL, ORL, and OTDR tests from a single connector port.

WDM/ROADM
- Protect your investment with OSA modules that support all CWDM and DWDM applications, including 40 G/100 G testing and new modulation formats.
- Measure the true OSNR in both ROADM and 40 G networks with tight channel spacing.
- Fully analyze 400 G Nyquist WDM signals with the industry’s first field OSA

Smart Link Mapper (SLM) Family – for T-BERD/MTS OTDR Platforms
- The SLM intelligent optical software application instantly and schematically shows the tested fiber link and automatically recognizes, interprets, and displays each OTDR event as a simple icon for easy understanding.
- FTTA-SLM is based on SLM and adds specific software for fiber-to-the-antenna (FTTA) networks, including testing at places like cell towers and roof tops.
- FTTH-SLM is based on SLM and adds specific software for fiber-to-the-home (FTTH) networks and can test through splitters.
Multi-Service Application Testing

- One tool can test all your network service needs, including Ethernet, Fibre Channel, PDH, SDH/SONET, OTN, CPRI, and OBSAI
- Provide industry-leading multiport 10 G modular platform testing for network field installation, advanced troubleshooting, and lab-based network validation
- Guarantee end-customer satisfaction with application-layer testing for data (TrueSpeed per RFC 6349), voice (VoIP), and video (IPTV)
- Promote service efficiency and network life cycle management with integrated installation and advanced troubleshooting analysis tools in a single test instrument

Save valuable time with service-activation tests

Test better and quicker with automated tests

- J-QuickCheck — Quick automated test (RFC 2544, Y.1564) validates end-to-end and auto-negotiation configuration
- Enhanced RFC 2544 — Automated turn-up test validates key performance indicators (KPIs)/measures SLAs concurrently—throughput, frame delay, and delay variation, frame loss, and optionally committed burst size (CBS)
- Y.1564 SAMComplete — Automated service verification test speeds installation of multiple classes of services (COS)
- TrueSpeed per RFC 6349 — Automated, standards-based test saves 20 percent or more in operating expenses (OpEx) and eliminates finger-pointing for slow file downloads
- TrueSAM — Combines these tests into one ultimate installation tool

Reduce network problem mean time to repair

Automated tests immediately identify problems and eliminate the need for a separate analyzer

- Network Discovery — Automatically identify equipment present on the network
- J-Profiler — Discovers live traffic streams for real-time troubleshooting that analyzes top-talkers while in service
- Integrated Capture/Decode — Provides 10 G line-rate packet capture and analysis in a handheld test tool
- J-Mentor — Provides expert troubleshooting guidance interpreting packet decodes
- Reduces CapEx/OpEx — Eliminates the need for a separate analyzer and immediately identifies problems without the need for a field expert