



Introducing the JDSU T-BERD®/MTS-8000 40 G Transport Module

In one rugged, compact, and portable tester, the T-BERD/MTS-8000 Transport Module provides the most complete service installation and maintenance test solution on the market by addressing all fiber characterization, service verification, and troubleshooting needs from 1.5 M up to 40 G.

Service providers can leverage their existing investment and technician training in the T-BERD/MTS-8000 to support higher speed services up to 40 G. JDSU will continue to provide new features for this dynamic, industry-leading test solution to ensure technicians meet the ever-increasing demands of a data-driven world.

The 40 G Transport Module is the latest innovation for the award-winning, industry-leading T-BERD/MTS-8000 family of test solutions. Installation and maintenance technicians using the T-BERD/MTS-8000 are inherently advanced attributable to the long-standing heritage of JDSU in the 40 G lab and production test market. JDSU has been providing 40 G test leadership since 2002 and currently offers 40/43 G test solutions for the JDSU Optical Network Transport (ONT) and TestPoint 40/43 G test product lines, including 40/43 G jitter.

Maximize 40 G testing with powerful new features

- Full 40 G testing (OC768/STM256)
- 1550 nm optics (per ITU-T and GR-253 standards)
- G.826 and G.828 performance measurements

Added benefits

- Integrated touch screen and easy-to-use graphical user interface (GUI)
- Extensive error/alarm generation and analysis
- Synchronous optical network technologies/synchronous digital hierarchy (SONET/SDH) overhead generation and analysis
- Internal, external, and recovered timing modes
- Pointer generation and analysis
- Optical power measurement (OPM)
- Frequency offset adjustment and measurement



T-BERD®/MTS-8000

40 G Transport Module

Additional Applications

The versatile design of the T-BERD/MTS-8000 40 G Transport Module provides in-depth, current 40 G testing needs (OC-768/STM-256) while adapting to new developments in the market (such as changing line coding or line speeds). Powerful features of the unit include ITU-T and GR-253-compliant optics with optical power measurement and frequency offset adjustment and measurement as well as multiple mappings to structure for 40 G, overhead generation and analysis, extensive error and alarm generation and analysis, various timing modes, round trip delay (RTD) measurements and performance according to G.826 and G828.

Ensure all aspects of 40 G network installation and maintenance with:

- Equipment installation and verification
- Service turn-up and service level agreement (SLA) verification
- Network Management System testing (alarm/error reporting)
- Link maintenance and troubleshooting

The most powerful 40 G installation and maintenance features in a portable platform:

- Address all 40 G installation and maintenance test needs in one platform: fiber characterization, service verification, maintenance, and troubleshooting.
- Combine with other modules to address the specific application needs of a particular customer and/or service, such as fiber characterization, dense wavelength division multiplexing [DWDM], NewGen/VCaT (virtual concatenation), plesiochronous digital hierarchy/digital switched network [PDH/DSN], Ethernet, Fibre Channel, OTN, and SONET/SDH.
- Use the same GUI and operation as the industry-leading T-BERD/MTS-8000 Transport Module supporting 10 G and lower line rates—no additional training required to support 40 G services.
- Quickly and easily update existing T-BERD/MTS-8000 procedures to support 40 G equipment and service installation and maintenance requirements.
- “Third Generation” design leverages many years of industry-leading JDSU 40 G test solutions, providing our customers with an innovative, reliable, and proven solution for the field.

Combining multiple test capabilities with unprecedented levels of field modularity, the JDSU T-BERD/MTS-8000 is a scalable field platform for installing and maintaining short-haul, long-haul, fiber to the X (FTTx), metro, coarse wavelength division multiplexing (CWDM), transport, data, and DWDM networks. Advanced modularity enables the T-BERD/MTS-8000 to integrate options for video microscope, visual fault locator (VFL), light source, power meter, and optical talk set with application modules for SONET, SDH, Ethernet, multimode and single mode optical time domain reflectometers (OTDRs), polarization mode dispersion (PMD), spectral attenuation, chromatic dispersion (CD), wave division multiplexing (WDM), and single-port and dual-port optical spectrum analyzer (OSA). Compatibility with more than 10,000 field-proven units already deployed worldwide by every major telecommunications network operator enables easy migration to new network technologies while continuing to reduce expenses.

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