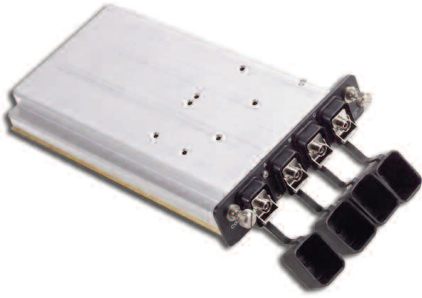


## T-BERD<sup>®</sup>/MTS-8000 Tester Multi-Test Access Unit



### Key Features

- Innovative module with up to six interconnected test functions
- Reduces the number of fiber connections and disconnections to one single connection
- Increases fiber field test productivity
- Provides a complete fiber characterization solution that combines OTDR, IL, CD, PMD, and AP

### Applications

- Perform fiber link characterization from Metro to Ultra Long Haul networks
- Provides an automated link characterization solution

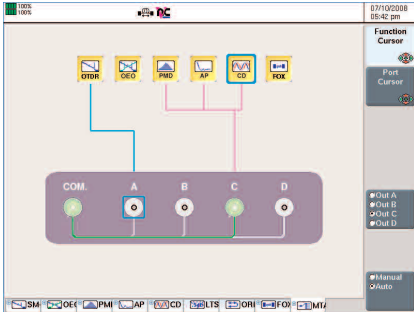
### Innovative Fiber Link Characterization Solution

The creation of fiber characterization significantly increases the number of tests that can be performed on a fiber. The tests range from optical time domain reflectometer (OTDR) and insertion loss (IL) to a combined test of OTDR + IL + chromatic dispersion (CD) + polarization mode dispersion (PMD) + attenuation profile (AP).

Today's test solutions accommodate multiple fiber connections and disconnections in order to perform each type of measurement. From the beginning of fiber characterization, JDSU has understood the need for a solution that answers the technician's requirement for a reduction in testing time, both as a reduction in actual measurement time and as a reduction in the time involved for fiber manipulation.



T-BERD/MTS-8000



Innovative module with up to six interconnected test functions

### Increase Functionality with the Multi-Test Access Unit

With the Multi-Test Access Unit (MTAU), the T-BERD/MTS-8000 adds a new dimension to fiber characterization by considering fiber manipulation as an obstacle to increased productivity. JDSU is the first test equipment supplier to introduce the reduction of fiber operations, offering significant time savings, into the test sequence.

- Connect up to four different test modules to the MTAU such as OTDR, Optical Loss Test Set (OFI), Optical dispersion measurement (ODM) and Broadband Source (BBS) modules.
- Connect the fiber under test to the common port
- Switch from one module to another, letting technicians perform up to six tests in a row
- Automated test sequence of the MTAU reduces, by more than 50%, the amount of time it takes for both fiber commissioning (OTDR and IL/optical return loss [ORL]) and fiber characterization (OTDR, IL, ORL, CD, PMD, and AP)

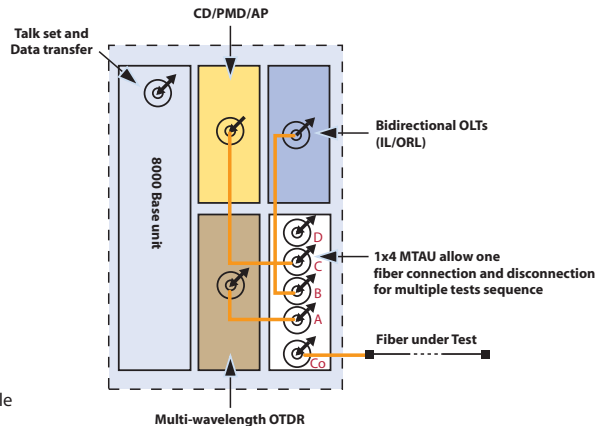
### Reducing Handling Time and Risk of Errors: The One-Connect Solution

Once the interconnection of test modules is set up and the measurement sequence is defined, technicians must have to connect/disconnect the fiber under test, eliminating the risk of incorrect measurements introduced by fiber manipulation for each measurement type.

- One fiber connection for the complete suite of test
- One inspection and cleaning of the fiber connector
- Reduces handling time and risk of errors

### Flexible Test Sequences

The MTAU performs multi-test sequence avoiding repetitive actions such as function swap-ups, multiple starts and stops, and file storage steps. Technicians can then define and associate the test functions for each dedicated port. A single key press starts each step-by-step measurement acquisition.



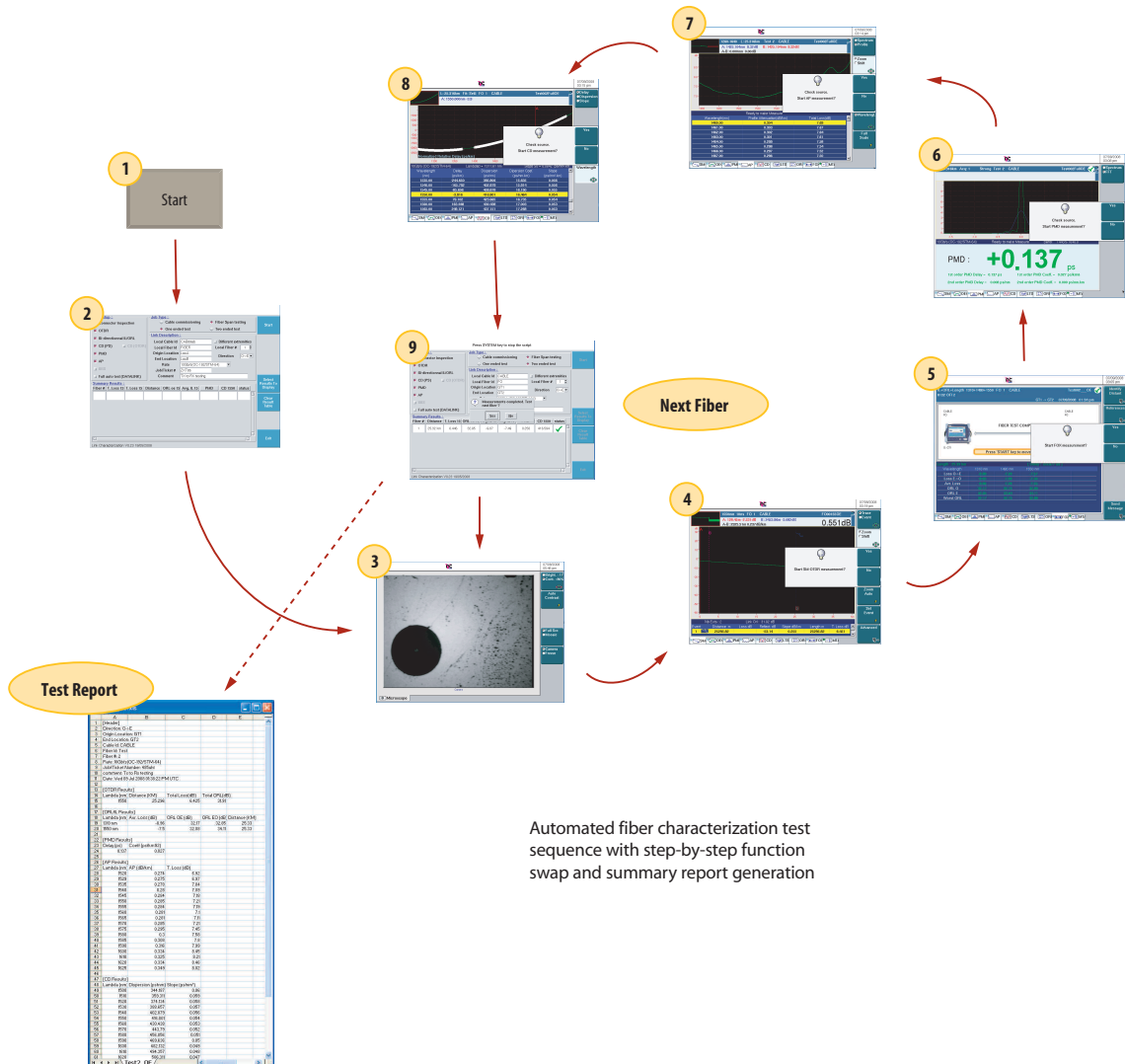
MTAU interconnections and principle

### Automated Fiber Link Characterization Test Sequence

Combined with the MTAU module, this innovative and powerful solution provides the best tool for the technician to perform his job the right way and the most efficiently.

- Automatic test sequence for all measurement functions
- Step-by-step fiber characterization process
- One-line and on-the-fly report generation
- Advanced characterization features for complex testing situation
- Proven for any test scenario and technician skills

All test results automatically saved into one directory—no technician intervention required. A summary result is generated at the end of the test sequence for quick Pass/Fail analysis. The test set automatically creates a text file which includes all test results (Loss, ORL, CD, PMD, and AP) in pre-defined format.



# 4

## Specifications

### Typical Specifications at 25°C

#### Optical Interfaces

Applicable fiber	SMF 9/125 μm
Interchangeable optical connectors	FC, SC, DIN, LC

#### Size and Weight

Dimensions (W x H x D)	213 x 124 x 32 mm (8.38 x 4.88 x 1.26 in)
Module	500 g (1.1 lb)

#### Optical Performance

Wavelength range	1260 to 1640 nm
Insertion loss (max) <sup>1</sup>	1.5 dB (1 dB for MTAU2)
Return loss (max) <sup>1</sup>	50 dB
PDL (max)	0.1 dB
Repeatability (max) <sup>2</sup>	0.01 dB

<sup>1</sup>Excluding connector loss

<sup>2</sup>At constant temperature and polarization

## Ordering Information

### 1x2 Multi-Test Access Unit

Interconnect up to 2 test modules	E81MTAU2
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### 1x4 Multi-Test Access Unit

Interconnect up to 4 test modules	E81MTAU4
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### Universal Optical Connectors

EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIAPCFC, EUNIAPCSC, EUNIAPCST, EUNIAPCDIN, EUNIAPCLC

### Bend Insensitive 30 cm Jumpers for Interconnections

SC/UPC to SC/UPC	EFJ30SCUPC
SC/UPC to SC/APC	EFJ30SCUPCAPC
FC/UPC to FC/UPC	EFJ30FCUPC
FC/UPC to FC/APC	EFJ30FCUPCAPC

For more information on test adapters, cables, and fiber optic couplers, please refer to the separate datasheet entitled "JDSU Fiber Optic Test Adapters and Cables".

## Test & Measurement Regional Sales

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