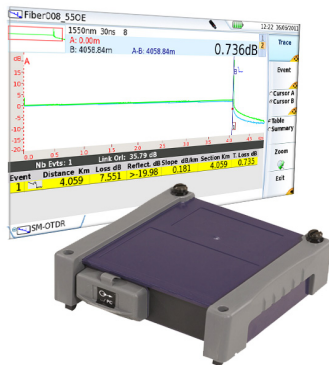


# T-BERD®/MTS-2000/-4000 Platforms

## Metro-Access (MA) OTDR Module



### Key Benefits

- Offer ideal test solution for use in the installation, turn-up and maintenance of Metro, Metro-Access and Access/FTTx networks
- Provide in-service troubleshooting with dedicated wavelengths and instantaneous traffic detection when connecting live fiber
- Include bi-directional analysis, fault locator, macrobend detection, and multi-pulse acquisition test features

### Key Features

- Up to 37dB dynamic range
- PON-optimized to test up to 1x32 splitter
- Single-/ dual-/ tri-wavelength versions with 1310, 1550, 1625, and 1650nm
- Single connector port for 1310, 1550, and in-service 1625nm wavelengths
- Integrated CW light source and Power Meter
- FiberComplete™ compatible

JDSU Metro-Access (MA) OTDR module provides technicians with the ideal test tool for Access and Metro networks and enables to characterize various architectures such as CWDM, wireless backhaul and FTTx.

The MA OTDR module meets the challenges of commissioning a complete metro ring, troubleshooting a bend in a distribution frame or qualifying high-port-count optical splitters in passive optical networks (PON). Impressive technical specifications combined with a wide range of test functions provide technicians with the right solution to deploy or repair fiber links in the field with increased efficiency.

### PLATFORM COMPATIBILITY

T-BERD 2000 / MTS-2000



One-Slot Handheld Modular Platform  
Fiber Networks Testing

T-BERD 4000 / MTS-4000



Two-Slot Handheld Modular Platform  
Fiber/Copper & Multiple Services Testing

**Specifications**

| <b>General (Typical at 25°C)</b>   |                                     | <b>Distance measurement</b>                  |   | <b>Automatic or dual cursor</b> | <b>Reflectance/ORL Measurements</b>                   |                                     |
|------------------------------------|-------------------------------------|--|---|---------------------------------|---|-------------------------------------|
| Weight                             | 0.35 kg (0.77 lb)                   | Display range                                | 0.5 to 260 km   |                                 | Reflectance accuracy                                  | ±2 dB                               |
| Dimensions (w × h × d)             | 128x134x40 mm(5x5.28x1.58 in)       | Cursor resolution                            | 1 cm  |                                 | Display resolution                                    | 0.01 dB                             |
| <b>Optical Interfaces</b>          |                                     | Sampling resolution                          | 4 cm  |                                 | Threshold   | -11 to -99 dB in 1 dB step          |
| Interchangeable optical connectors | FC, SC, DIN, LC, and ST             | Accuracy                                     | ±1 m ±sampling resolution ±1.10 <sup>-5</sup> x distance<br>(Excluding group index uncertainties) |                                 | <b>CW Source and Broadband Power Meter (optional)</b> |                                     |
| <b>Technical Characteristics</b>   |                                     | <b>Attenuation Measurement</b>               |   |                                 | CW Source output power level                          |                                     |
| Laser safety class (21 CFR)        | Class 1                             | Automatic, manual, 2-point, 5-point, and LSA |   |                                 | -3.5 dBm  |                                     |
| Distance units                     | Kilometers, feet, and miles         | Display range                                | 1.25 to 55 dB   |                                 | Power level range                                     | 0 to -50 dBm                        |
| Group index range                  | 1.30000 to 1.70000 in 0.00001 steps | Display resolution                           | 0.001 dB  |                                 | Calibrated wavelengths                                | 1310, 1490, 1550, 1625, and 1650 nm |
| Number of data points              | Up to 128,000 data points           | Cursor resolution                            | 0.001 dB  |                                 | Measurement accuracy                                  | ±0.5 dB                             |
|                                    |                                     | Linearity                                    | ±0.03 dB/dB   |                                 |   |                                     |
|                                    |                                     | Threshold                                    | 0.01 to 5.99 dB in 0.01 dB steps  |                                 |   |                                     |

**Metro Access (MA) OTDR Module (Typical at 25°C)**

|                                    | 1310±20 nm    | 1550±20 nm    | 1625±10 nm    | 1650±20 nm    |
|------------------------------------|---------------|---------------|---------------|---------------|
| Central wavelength <sup>1</sup>    | 1310±20 nm    | 1550±20 nm    | 1625±10 nm    | 1650±20 nm    |
| Pulse width                        | 3 ns to 20 µs | 3 ns to 20 µs | 3 ns to 20 µs | 3 ns to 20 µs |
| RMS dynamic range <sup>2</sup>     | 37 dB         | 35 dB         | 35 dB         | 34 dB         |
| Event dead zone <sup>3</sup>       | 90 cm         | 90 cm         | 90 cm         | 90 cm         |
| Attenuation dead zone <sup>4</sup> | 4m            | 4m            | 4m            | 4m            |

- (1) Laser at 25°C  
 (2) The one-way difference between the extrapolated backscattering level at the start of the fiber and the RMS noise level, after 3 minutes averaging.  
 (3) Measured at ±1.5 dB down from the peak of an unsaturated reflective event.  
 (4) Measured at ±0.5 dB from the linear regression using a FC/UPC type reflectance.

**Basic Ordering Information (Contact JDSU for additional references)**

|   |            |
|---|------------|
| Metro Access 1310/1550 nm OTDR Module                 | E4126MA    |
| Metro Access 1310/1550/1625 nm OTDR Module            | E4136MA    |
| Metro Access 1310/1550 & Filtered 1625 nm OTDR Module | E4136RMA   |
| Metro Access Filtered 1650 nm OTDR Module             | E4118RMA65 |
| Continuous and modulated source option                | E410TDRLS  |
| Power meter option                                    | E410TDRPM  |

**Universal optical connectors**

|                      |  |
|----------------------|--|
| Straight connectors  | EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCCLC |
| 8° angled connectors | EUNIAPCFC, EUNIAPCSC, EUNIAPCDIN, EUNIAPCLC        |

For more information on the T-BERD/MTS-2000 and T-BERD/MTS-4000 test platforms, please refer to the separate data sheets and brochure.

**Test & Measurement Regional Sales**

|   |  |   |   |  |
|---|--|---|---|--|
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|---|--|---|---|--|