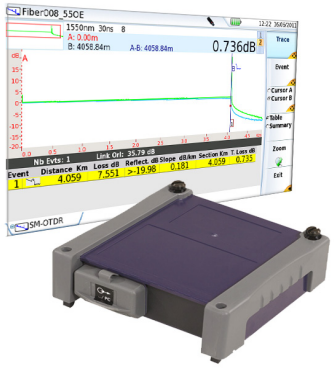
T-BERD®/MTS-2000/-4000 Platforms

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

General (Typical at 25°C)

Weight	0.35 kg (0.77 lb)
Dimensions (w × h × d)	128x134x40 mm(5x5.28x1.58 in)

Optical Interfaces

Interchangeable optical connectors	FC, SC, DIN, LC, and ST

Technical Characteristics

Laser safety class (21 CFR)	Class 1
Distance units	Kilometers, feet, and miles
Group index range	1.30000 to 1.70000 in 0.00001 steps
Number of data points	Up to 128,000 data points
Distance measurement	Automatic or dual cursor
Display range	0.5 to 260 km
Cursor resolution	1 cm
Sampling resolution	4 cm
Accuracy	±1 m ±sampling resolution ±1.10^{-5} x distance (Excluding group index uncertainties)

Attenuation Measurement

Automatic, manual, 2-point, 5-point, and LSA	
Display range	1.25 to 55 dB
Display resolution	0.001 dB
Cursor resolution	0.001 dB
Linearity	±0.03 dB/dB
Threshold	0.01 to 5.99 dB in 0.01 dB steps

Reflectance/ORL Measurements

Reflectance accuracy	±2 dB
Display resolution	0.01 dB
Threshold	-11 to -99 dB in 1 dB step

CW Source and Broadband Power Meter (optional)

CW Source output power level	−3.5 dBm
Power level range	0 to −50 dBm
Calibrated wavelengths	1310, 1490, 1550, 1625, and 1650 nm
Measurement accuracy	±0.5 dB

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

Central wavelength[1]	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[2]	37 dB	35 dB	35 dB	34 dB
Event dead zone[3]	90 cm	90 cm	90 cm	90 cm
Attenuation dead zone[4]	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, EUNIPCLC
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.

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