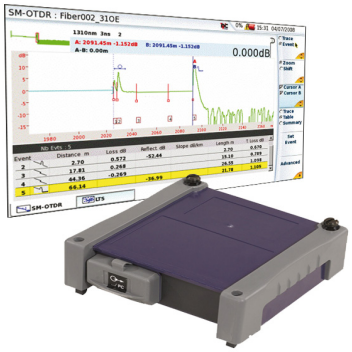
T-BERD®/MTS-2000/-4000 Platforms

Last Mile (LM) OTDR Module



Key Benefits

- **Offer ideal test solution for use in the installation, turn-up and maintenance of Premises, Access and FTTx networks**
- **Enable fiber distribution and drop cable characterization with continuity check**
- **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 34dB dynamic range**
- **High resolution with 1m dead zone to pinpoint any faults in the network.**
- **Single-/ dual-/ tri-wavelength versions with 1310, 1550, 1625 and 1650nm**
- **Filtered 1625nm or 1650nm wavelength for in-service troubleshooting**
- **Integrated CW Light source and Broadband Power Meter**

Integrating fast acquisition time, sharp resolution (1m event dead zone) and 34dB dynamic range makes the LM OTDR module an ideal companion for the installation and maintenance of premises, access and FTTx fiber links.

Thanks to its multi-wavelength combination, detailed events commissioning and troubleshooting of point-to-point fiber networks can be performed from the Central Office/Head End or from the premise site ensuring optimum testing flexibility.

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	0.35kg (0.77lb)
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	1.300000 to 1.700000 in 0.00001 steps
Number of data points	Up to 128,000 data points
Distance measurement	Automatic or dual cursor
Display range	0.5 m to 160 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 dB to 55 dB
Display resolution	0.001 dB
Cursor resolution	0.001 dB
Linearity	±0.05 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 steps

CW Source and Broadband Power Meter (optional)

CW Source output power level	−3.5 dBm
Power level range	−2 to −50 dBm
Calibrated wavelengths	1310, 1490, 1550, 1625, and 1650 nm
Measurement accuracy	±0.5 dB

Last Mile (LM) 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]	34 dB	32 dB	32 dB	30 dB
Event dead zone[3]	1m	1m	1m	1m
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 typical FC/UPC reflectance.

Basic Ordering Information (Contact JDSU for additional references)

Last Mile 1310/1550 nm OTDR Module	E4126LM
Last Mile1310/1550/1625 nm OTDR Module	E4136LM
Last Mile 1310/1550/1650 nm OTDR Module	E4138LM65
Last Mile 1310/1550 nm and Filtered 1625 nm Module	E4136RLM
Last Mile Filtered 1650 nm OTDR Module	E4118RLM65
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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