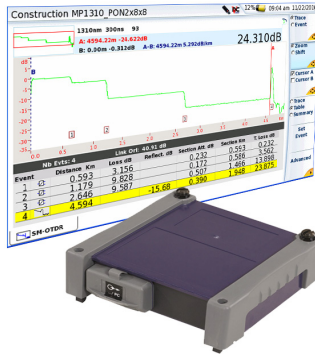


T-BERD®/MTS-2000/-4000 Platforms

Metro-PON (MP) 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 with high-port-count splitters
- Provide in-service troubleshooting with dedicated wavelengths for 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 42dB dynamic range and 256,000 acquisition points
- PON-optimized to test up to 1x128 splitter
- Single-/ dual-/ tri-wavelength versions with 1310, 1490,1550, 1625 and 1650nm
- Single connector port for 1310, 1550, and in-service 1625nm or 1650nm wavelengths
- Integrated CW Light source as standard and Broadband Power Meter
- FiberComplete™ compatible

JDSU Metro-PON (MP) OTDR module provides the optimum performance that fiber installers and service providers need to test Metro, Cable TV (CATV) and FTTH networks with high-port-count splitters.

With various wavelengths combinations, including filtered wavelengths for in-service testing, an improved dynamic range and optimized resolution and dead zones at short pulses, the MP module is the ideal OTDR to test any PON systems up to 1x128 splitting ratio.

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
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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 256,000 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 steps

CW Source

Output power level	-3.5 dBm
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Broadband Power Meter (Optional)

Power level range	0 to -55 dBm
Measurement wavelengths	1310, 1490, 1550, 1625, and 1650 nm
Calibrated wavelengths	1310, 1490, 1550, 1625, and 1650 nm
Measurement accuracy	±0.5 dB

Metro-PON (MP) OTDR Module (Typical at 25°C)

These are standard specifications, representing only a selection of the JDSU offerings. For specific requirements, please contact your local JDSU representative.

	1310±20 nm	1490±20 nm	1550±20 nm	1625±10 nm	1650±20nm
Central wavelength ¹	1310±20 nm	1490±20 nm	1550±20 nm	1625±10 nm	1650±20nm
Pulse width	3 ns to 20 μs	3 ns to 20 μs	3 ns to 20 μs	3 ns to 20 μs	3 ns to 20 μs
RMS dynamic range ²	42 dB	40 dB	40 dB	40 dB	40dB
Event dead zone ³	80 cm	80 cm	80 cm	80 cm	80 cm
Attenuation dead zone ⁴	4m	4m	4m	4m	4m

(1) Laser at 25°C and measured at 10 μs.

(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 PON 1310/1550 nm OTDR Module	E4126MP
Metro PON 1310/1490/1550 nm OTDR Module	E4138MP49
Metro PON 1310/1550/625 nm OTDR Module	E4136MP
Metro PON 1310/1550 and Filtered 1625 nm OTDR Module	E4136RMP
Metro PON Filtered 1650 nm OTDR Module	E4118RMP65

Universal optical connectors

Straight connectors	EUNIPFCF, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC
8° angled connectors	EUNIAPFCF, 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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