



MA OTDR Module

T-BERD®/MTS-2000, -4000, -5800 Platforms

JDSU MA OTDR module provides technicians with the ideal test tool for characterizing various access and metro network 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). Its impressive technical specifications combined with a wide range of test functions give technicians with the best solution to more efficiently deploy or repair fiber links in the field.

The MA module's optical performance combined with the complete T-BERD/MTS platform suite ensures testing is done right—the first time.

Standard test features include:

- Automatic macrobend detection
- Summary results table with pass/fail analysis
- Bidirectional OTDR analysis
- FastReport onboard report generation

Features and Benefits

- Up to 40 dB dynamic range
- PON-optimized to test up to 1x32 splitter ratio, and up to 1x64 splitter ratio with the FTTH-SLM application
- Single-, dual-, tri-wavelength versions with 1310, 1550, 1625, and 1650 nm
- Single connector port for 1310, 1550, and in-service 1625 nm wavelengths
- Integrated CW light source and power meter
- FiberComplete™ compatible
- Ready for SLM, FTTA-SLM, and FTTH-SLM intelligent optical application software
- Instantly detects traffic upon connecting live fiber



T-BERD/MTS-2000 one-slot handheld modular platform for testing fiber networks



T-BERD/MTS-5800* handheld test instrument for testing 10 G Ethernet and fiber networks



T-BERD/MTS-4000 two-slot handheld modular platform for testing fiber, copper, and multiple services

*Compatible with models -5811P/L and -5822P.

Specifications

General (Typical at 25°C)	
Weight	0.35 kg (0.77 lb)
Dimensions (w x h x 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 steps
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

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	40 dB	38 dB	37 dB	37 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 an FC/UPC-type reflectance.

Ordering Information

Description	Part Number
MA OTDR modules and options	
Metro access 1310/1550 nm OTDR module	E4126MA
Metro access 1310/1550/1625 nm OTDR module	E4136MA
Metro access 1310/1550 and 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 T-BERD/MTS-2000, -4000, and -5800 test platforms, please refer to their respective data sheets and the brochure. Contact your JDSU representative for additional information regarding your specific needs.



North America
Latin America
Asia Pacific
EMEA

Toll Free: 1 855 ASK-JDSU
Tel: +1 954 688 5660
Tel: +852 2892 0990
Tel: +49 7121 86 2222

(1 855 275-5378)
Fax: +1 954 345 4668
Fax: +852 2892 0770
Fax: +49 7121 86 1222