

## JDSU T-BERD 4000 4126 LA COSA-4055 Specs Provided by [www.AAATesters.com](http://www.AAATesters.com)

### OTDR Modules for the T-BERD®/MTS-4000 Platform

**Key Features**

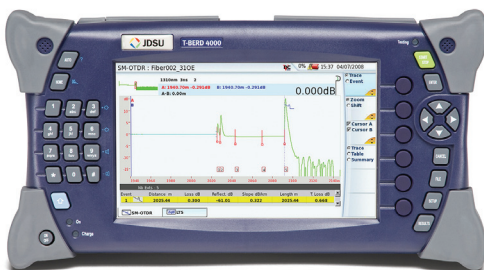
- Field installable single-slot OTDR plug-in modules for the T-BERD/MTS-4000 platforms
- Optimized OTDR plug-ins for Enterprise, FTTH, Access, Metro, and Long-Haul applications
- Highest OTDR performance with up to 42 dB dynamic range and 256,000 acquisition points
- Single connector port configuration on 1310/1550/1625 nm OTDR with in-service features at 1625 nm
- Instantaneous traffic detection when connecting live fiber
- Integrated source and power meter under OTDR port

**Applications**

- Used to install, maintain, and troubleshoot Metro, Access, and FTTH networks
- Provides a fiber qualification solution for current and future Access/FTTH networks (Ethernet, PON, and NG-PON)

Testing Metro, Cable TV (CATV), Access, and Fiber-to-the Home (FTTH) networks with larger crews calls for using high-performance handheld test equipment, which is both cost-effective and versatile. Whatever your needs, the T-BERD/MTS-4000 can provide an optimized OTDR plug-in option.

The OTDR plug-in modules together with the T-BERD/MTS-4000 family of products provide a rugged, battery-operated handheld test solution. The large display combined with a comprehensive user interface make it the ideal OTDR to respond to any test scenario.



**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**

Applicable fiber	SMF 9/125 μm
Interchangeable optical connectors	FC, SC, DIN, LC (PC or APC) and ST (PC)

**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 or 256,000 data points

Distance measurement	Automatic or dual cursor
Display range	0.5 to 160 km
Cursor resolution	1 cm
Sampling resolution	4 cm
Accuracy	±1 m ±sampling resolution ±1.10 <sup>-5</sup> 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	±0.03 dB/dB (±0.04 for LM)
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 (SM)
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

**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.

	Central Wavelength <sup>1</sup>	RMS Dynamic Range <sup>2</sup>	Event Dead Zone <sup>3</sup>	Attenuation Dead Zone <sup>4</sup>	Application	Key Benefits
Short-range multimode (MM)	850/1300±20 nm	27/25 dB	0.8 m	4 m	LAN/Enterprise	Multimode network qualification
Short range multimode and single-mode (Quad)	850/1300 1310/1550 ±20 nm	27/25 dB 37/35 dB	0.8 m 0.9 m	2.5 m 4 m	LAN/Enterprise/ Access/ Metro	Universal test solution for both multimode and single-mode networks
Short-range single-mode (LM)	1310 ±20 nm 1550 ±20 nm 1625 ±20 nm 1650 ±20 nm	34 dB 32 dB 32 dB 30 dB	1 m	4 m	FTTH/Access	Short-haul qualification FTTH distribution qualification
Medium-range single-mode (MA)	1310 ±20 nm 1550 ±20 nm 1625 ±20 nm 1650 ±20 nm	37 dB 35 dB 35 dB 33 dB	0.9 m	4 m	FTTH/Access/ Metro	Short-/Medium-haul qualification FTTH test up to 1x32 splitter
Long-range single-mode (MP)	1310 ±20 nm 1490 ±20 nm 1550 ±20 nm 1625 ±20 nm 1650 ±20 nm	42 dB 40 dB 40 dB 40 dB 40 dB	0.8 m	4 m	FTTH/Access/ Metro/Long Haul	Short-/Medium-/Long-haul qualification FTTH test up to 1x128 splitter

(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 1310 nm and ± 0.5 dB from the linear regression using a FC/PC- type reflectance.

**Basic ordering information (contact JDSU for additional references)**

Multimode 850/1300 OTDR Module	E4123MM
Multimode/Single-mode 850/1300/1310/1550 nm OTDR Module	E4146QUAD
Last Mile 1310/1550 nm OTDR Module	E4126LM
Metro Access 1310/1550 nm OTDR Module	E4126MA
Metro PON 1310/1550 nm OTDR Module	E4126MP
Metro PON Filtered 1650 nm OTDR Module	E4118RMP65

**Universal optical connectors**

Straight connectors EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCIN, EUNIPCLC

8° angled connectors EUNIAPCFC, EUNIAPCSC, EUNIAPCDIN, EUNIAPCLC

For more information on the T-BERD/MTS 4000 test platform or individual modules, please refer to the separate data sheets and brochure.

**Test & Measurement Regional Sales**

<b>NORTH AMERICA</b> TEL: 1 866 228 3762 FAX: +1 301 353 9216	<b>LATIN AMERICA</b> TEL: +1 954 688 5660 FAX: +1 954 345 4668	<b>ASIA PACIFIC</b> TEL: +852 2892 0990 FAX: +852 2892 0770	<b>EMEA</b> TEL: +49 7121 86 2222 FAX: +49 7121 86 1222	<b>WEBSITE: <a href="http://www.jdsu.com/test">www.jdsu.com/test</a></b>
---	--	---	---	--