JDSU 4126 LA Specs

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4100-Series OTDR Modules T-BERD[®]/MTS-2000, -4000, -5800 platforms

JDSU 4100-Series OTDR modules let field technicians rapidly, reliably, and cost-effectively install, turn up, and troubleshoot any optical network architecture—enterprise, metro, and FTTx/access point-topoint or point-to-multipoint passive (PONs).

The OTDR modules' optical performance, combined with the complete suite of T-BERD/MTS platform testing features, ensures that testing is done right the *first* time.

Standard testing features include:

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



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

Features and Benefits

- Up to 43 dB dynamic range and 256,000 acquisition points
- PON-optimized to test through a 1x128 splitter
- Combined single-mode/multimode into one (quad)
- Single/dual/tri-wavelength versions with 1310/1490/1550/1625/1650 nm
- Single connector port for 1310/1550, and inservice 1625/1650 nm wavelengths
- Integrated CW light source and broadband
 power meter
- Ready for SLM, FTTA-SLM, and FTTH-SLM
 intelligent optical application software
- Instantly detects traffic when connected to live fiber

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

Specifications

General (typical at 25°C)				
Weight	0.35 kg (0.77 lb)			
Dimensions ($wxhxd$)	128 x 134 x 40 mm (5 x 5.28 x 1.58 in)			
Optical Interfaces				
Interchangeable optical connectors ¹	FC, SC, DIN, LC (PC or APC) and ST (PC)			
Technical Characteristics				
Laser safety class (21CFR)	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 or 256,000 data points			
Distance measurement				
Mode	Automatic or dual cursor			
Display range	0.5 up 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				
Mode	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/±0.05 for LA			
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			
Source and Broadband Power Meter (optional)				
CW source output power level	–3.5 dBm			
Power level range (MM/SM) ²	-3 to -30/0 to -55 dBm			
Calibrated wavelengths (SM) ³	1310/1490/1550/1625/1650 nm			
Calibrated wavelengths (MM) ⁴	850/1300 nm			
Measurement accuracy (SM)	±0.5 dB			
Measurement accuracy (MM) ⁵	±1 dB			

OTDR Modules (typical at 25°C)						
	Central Wavelength⁵	RMS Dynamic Range ⁷	Event Dead Zone ⁸	Attenuation DeadZone ⁹	Network Type	Applications
MM	850/1300±30 nm	26/24 dB	0.8 m	4 m	Enterprise/FTTA	Multimode network qualification
Quad	850/1300 ± 30 nm 1310/1550 ±20 nm	26/24 dB 37/35 dB	0.8 m 0.9 m	4 m 4 m	Enterprise/FTTA/ access/metro	Multimode and single-mode short- and medium-haul network qualification
LA	1310/1550/1650 ±20 nm	35/33/30 dB	1.5 m	6 m	FTTA/FTTH/access	Short-haul qualification FTTH drop-cable qualification/maintenance
MA	1310 ±20 nm 1550 ±20 nm 1625 ±10 nm 1650 ±20 nm	40 dB 38 dB 37 dB 37 dB	0.9 m	4 m	FTTH/access/ metro	Short/medium-haul qualification FTTH test up to 1x32 splitter
MP	1310 ±20 nm 1490 ±20 nm 1550 ±20 nm 1625 ±10 nm 1650 +10/-5 nm	43 dB 41 dB 41 dB 41 dB 41 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. FC and SC for LA module

-2 to -50 dBm for Quad
 Available on MA, MP, and Quad modules

4. Available on MM and Quad modules

5. Using a modal controller

Ordering Information

Description	Part Number
OTDR Modules	
Multimode 850/1300 OTDR module	E4123MM
Multimode/single-mode 850/1300/1310/1550 nm OTDR module	E4146QUAD
LA 1310/1550 nm OTDR module	E4126LA
MA 1310/1550 nm OTDR module	E4126MA
MP 1310/1550 nm OTDR module	E4126MP

6. Laser at 25°C and measured at 10 μs

The one-way difference between the extrapolated backscattering level at the start of the fiber and the RMS noise level, after 3 minutes averaging
 Measured at ±1.5 dB down from the peak of an unsaturated reflective event

9. Measured at 1310 nm and \pm 0.5 dB from the linear regression using a FC/UPC-type reflectance

Description	Part Number	
Universal Optical Connectors (not applicable for LA module)		
Straight	EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC	
8° angled	EUNIAPCFC, EUNIAPCSC, EUNIAPCDIN, EUNIAPCLC	

For more information on T-BERD/MTS-2000, -4000, -5800 test platforms or individual modules, refer to their respective data sheets and brochure.



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