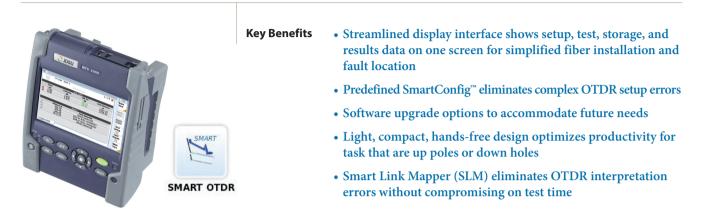




JDSU SmartOTDR 100B Specs Provided by www.AAATesters.com

SmartOTDR[™] Testing Solution



Key Features

- Single-wavelength version with 1550 nm and dual-wavelength version with 1310 and 1550 nm
- 35/33 dB dynamic range at 1310/1550 nm
- Integrated CW light source on OTDR port
- Built-in optical power meter and visual fault locator options
- Large 5-inch touch-screen display
- Comes standard with a special hands-free bag

Applications

- Characterizing point-to-point Access fiber
- Qualifying FTTH feeder and drop cables
- Troubleshooting FTTA front haul
- Installing and maintaining interbuilding single-mode Enterprise networks

JDSU SmartOTDR is a simple, compact, upgradable OTDR test solution based on the T-BERD[®]/MTS-2000 platform dedicated to installing and troubleshooting optical fiber across premises, fiber-to-the antenna (FTTA), and fiber-to-the home (FTTH) networks.

The SmartConfig feature guarantees accurate, consistent, and repeatable results every time regardless of the operator's skill level and it eliminates setup errors requiring fiber re-tests and truck re-rolls.

The JDSU SmartOTDR solution optical performance and testing features ensure that testing jobs are done right *the first time*.

Standard testing features include:

- SmartOTDR user interface with SmartConfig error-free setting
- automatic macrobend detection
- summary result table with pass/fail analysis
- FastReport on-board report generation
- automated fiber inspection and pass/fail analysis software



Specifications (Typical at 25°C)

General			
Display	5-inch TFT color touch screen (12.5 cm)		
Resolution	800 x 480 W VGA		
Interfaces	Two USB2.0 ports		
	One mini-USB2.0 port		
	RJ45 LAN 10/100/1000 Mbps		
	Built-in Bluetooth (optional)		
	Built-in WiFi 802.11 b/g/n (optional)		
Internal memory 1GB (128MB for stora			
Battery	Rechargeable Lithium-polymer battery		
	8 hours of operation per		
	Telcordia GR-196-CORE		
Power supply	AC/DC adapter, input 100–250 V AC,		
	50–60 Hz;		
	2.5 A max, output 12 V DC, 25 W		
Electrical safety	EN60950-compliant		
Size (H x W x D)	175 x 138 x 80 mm		
	(6.9 x 5.4 x 3.2 in)		
Weight	1.21 kg (2.67 lb)		
Temperature			
Operating	-20 to +50°C (-4 to 122°F)		
Storage	-20 to +60°C (-4 to 140°F)		
Humidity Noncondensing	95%		

Built-in Power Meter (PM) Option¹

Calibrated wavelengths	850/1310/1490/1550/1625/1650 nm
Wavelength range	800 to 1650 nm in 1 nm steps
Accuracy ²	±0.2 dB
Measurement range ³	+5 to -50 dBm
Maximum resolution	0.01 dB/0.01 nW

Built-in Visual Fault Locator (VFL) Option Wavelength 650 pi

wavelength		
Emission mode	CW, 1 Hz	
Laser class	Class 2 per EN60825-1 and	
	FDA21 CFR Part 1040.10 standards	

OTDR 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

Distance Measurement

Mode	Automatic or dual cursor
Display range	0.1 km to 260 km
Cursor resolution	1 cm
Sampling resolution	4 cm

Accuracy

 ± 1 m \pm sampling resolution $\pm 1.10^{.5}$ 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 resoluti	on 0.001 dB	
Cursor resolutio	n 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

Output power level

—3.5 dBm

1. At 25°C, after 20-minute stabilization time and after zero setting

2. At calibrated wavelength (except 1650 nm)

P5000i Digital Analysis Microscope with 7 Tips

3. -45 dBm from 800 to 1250 nm

OTDR Specifications (Typical at 25°C)

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Central wavelength⁴	$1310 \pm 20 \text{ nm}$	1550 ± 20 nm
Pulse width	5 ns to 20 μs	5 ns to 20 µs
RMS dynamic range⁵	35 dB	33 dB
Event dead zone ⁶	1.5 m	1.5 m
Attenuation dead zone ⁷	6 m	6 m

4. Laser at 25°C

5. The one-way difference between the extrapolated backscattering level at the start of the fiber and the RMS noise level, after 3-minutes averaging

6. Measured at ± 1.5 dB down from the peak of an unsaturated reflective event

7. Measured at ± 0.5 dB from the linear regression using a typical FC/UPC reflectance

Ordering Information

SmartOTDR Test Kits*		Software Options		
Part Number SMARTOTDR-MTS2-2W	Description MTS-2000 1310/1550 nm Smart0TDR Kit	Part Number EXPERTOTDR2KUPG	Description Expert OTDR Mode License	
SMARTOTDR-MTS2-2W-PMVFL	MTS-2000 1310/1550 nm SmartOTDR Kit with PM/VFL options	ESMARTLINK-2K	SLM Software License	
SMARTOTDR-TB2-1W	T-BERD 2000 1550 nm SmartOTDR Kit**	ESMARTFTTA-2K	FTTA-SLM Software License	
SMARTOTDR-TB2-2W	T-BERD 2000 1310/1550 nm SmartOTDR Kit**			
SMARTOTDR-TB2-2W-PMVFL	T-BERD 2000 1310/1550 nm SmartOTDR Kit with PM/VFL options**	Accessories		
		Part Number	Description	

EDFSCOPE5Ki

* Contact your JDSU representative for additional SmartOTDR kits.

** Available only in North America.

Test & Measurement Regional Sales

MERICA ASIA PACIFIC	EMEA	www.jdsu.com/test
	954 688 5660 TEL: +852 2892 0990	954 688 5660 TEL: +852 2892 0990 TEL: +49 7121 86 2222