

T-BERD®/MTS-4000 Quad and Multimode OTDR Solutions

All-in-one Access and Enterprise OTDR test solution for the installation, maintenance, and troubleshooting of single-mode and multimode fiber networks



Key Features

- Dual Multimode or Quad (MM+SM) wavelengths
- Dynamic range of 27/25 dB (MM), 37/35 dB (SM)
- < 1m event dead zones (EDZ)/4 m attenuation dead zones (ADZ)
- Integrated MM/SM loss test sets
- Automated bend detection
- Propagation delay measurement in MM
- Integrated USB ports for data storage, keyboard/mouse, and fiber inspection microscope
- Remote control via RJ45 Ethernet port

Applications

OTDR, link insertion loss, power level measurement of:

- Enterprise/LAN networks
- Access/Premises networks
- Wireless backhaul networks

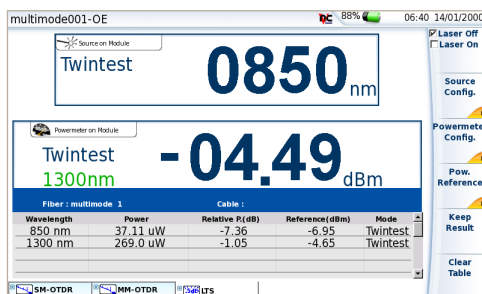
The Multimode (MM)/Single-mode (SM) Quad and Multimode modules are full featured optical time domain reflectometers (OTDRs) for the T-BERD/MTS-4000 platform.

The Quad OTDR is a powerful certification tool that gives a complete picture of single-mode and multimode fiber plants. Its user-friendly interface makes every technician a fiber expert with port quality check, automatic settings, loss-limit thresholds per event and fiber link, automatic event analysis, and results management.

In addition, the Quad integrates a continuous wave (CW) light source and power meter to measure the optical power level and insertion loss, for both single-mode and multimode fibers.

Part of the modular T-BERD/MTS-4000 platform, the Quad provides users with unmatched scalability, reduces training time, and adds testing capabilities. Here is a list of some of the testing capability added: Ethernet/IP physical media testing, copper cable certification, WiFi testing, VoIP emulation, IP video testing, visual fault location, and fiber connector inspection with automatic Pass/Fail analysis based on IEC standards.

Additional application modules are also available, such as the Enterprise Services Applications Module (ESAM) for troubleshooting active LAN networks.



Loss Test Set

Summary Table							
Laser	T. Loss	Link Ori	T.Length	Splice	Connector	Reflect.	Nb Evts
nm	dB	dB	m	Max. dB	Max. dB	Max. dB	
850	9.285	30.63	3969.36	0.357	-35.67	3	
1300	2.089	30.34	3967.43	0.354	-34.77	3	

Propagation Delay	
Laser nm	Propagation Delay us
850	19.728
1300	19.666

Summary & Propagation Delay table

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Ordering Information

OTDR Modules

Order Number	Description	Wavelengths	RMS Dynamic Range	Dead Zones (EDZ / ADZ)
E4123MM	MM Single Port OTDR for T-BERD/MTS-4000 Platform	Multimode 850/1300 nm	27/25 dB	0.8/4 m
E4146QUAD	MM/SM Dual Port OTDR for T-BERD/MTS-4000 Platform	Multimode 850/1300 nm Single-mode 1310/1550 nm	27/25 dB 37/35 dB	0.8/4 m 0.9/4 m

OTDR Module Options

Order Number	Description	Wavelengths	Output Power Level
E410TDRLS	Light Source Option (through SM and MM OTDR Ports)	Multimode 850/1300 nm Single-mode 1310/1550 nm	−3.5 dBm (CW) −6.5 dBm (Modulated)
Order Number	Description	Wavelengths	Power Range
E410TDRPM	Power Meter Option (through SM and MM OTDR Ports)	Multimode 850/1300 nm Single-mode 1310/1490/1550/1625/1650 nm	−3 to −30 dBm −2 to −50 dBm

For a single-mode port with a straight connector, please specify either: EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, or EUNIPCLC

For a single-mode port with an 8° angled connector, please specify either: EUNIAPCFC, EUNIAPCSC, EUNIAPCDIN, or EUNIAPCLC

For a multimode port with a straight connector, please specify either: EUNIPCFCMM, EUNIPCSCMM, EUNIPCSTMM, EUNIPCDINMM, or EUNIPCLCMM

Packages for North America

Order Number	Description	Mainframe Type	Module Type	Carrying Case	Included Options
TB4-DIS-QUAD-S	T-BERD 4000 Quad OTDR	TB4000 (Fiber/Copper platform)	E4146QUAD	E40GLOVE (Wrap-around glove soft case)	E410TDRLS
TB4-DIS-QUAD-HPT	T-BERD 4000 Quad OTDR Deluxe	TB4000HPT (ESAM ready)	E4146QUAD	E40SCASE1 (Large soft case)	Touch Screen E410TDRLS E410TDRPM
TB4-DIS-MM-S	T-BERD 4000 Multimode OTDR	TB4000HPT (ESAM ready)	E4123MM	E40GLOVE (Wrap-around glove soft case)	Touch Screen E410TDRLS

Packages for Other Regions

Order Number	Description	Mainframe Type	Module Type	Carrying Case	Included Options
MTS4-DIS-QUAD-S	MTS-4000 Quad OTDR	M4000 (Fiber/Copper platform)	E4146QUAD	E40SCASE1 (Large soft case)	E410TDRLS
MTS4-DIS-QUAD-HPT	MTS-4000 Quad OTDR Deluxe	M4000HPT (ESAM ready)	E4146QUAD	E40SCASE1 (Large soft case)	Touch Screen E410TDRLS E410TDRPM
MTS4-DIS-MM-S	MTS-4000 Multimode OTDR	M4000 (Fiber/Copper platform)	E4123MM	E40SCASE1 (Large soft case)	E410TDRLS

All packages include
Interchangeable SC/PC adapters (SM and MM)
European power adapter/charge
User Manual on USB stick
Pass/Fail inspection software (P5000 inspection probe available, separately)

Accessories

Order Number	Description
EFJEF50CONSCPC	Encircled Flux Mode Controller for 50µm MM Fiber – SC/PC (per IEC 61280-4-1)
EFJEF50CONFCPC	Encircled Flux Mode Controller for 50µm MM Fiber – SC/PC (per IEC 61280-4-1)
EDFSCOPE5K	Digital Video Scope kit including P5000 Probe (USB2.0), Soft Case, and 7 inspection tips (FBPT-FC, FBPT-LC, FBPT-SC, FBPT-SC-APC, FBPT-U12M, FBPT-U25M, FBPT-U25MA)
FCR-CLN-01	Fiber Cleaning Consumables Kit
40VFL	VFL Option with 2.5mm UPP Connector onboard T-BERD/MTS-4000 Mainframe
EOFS100	Optical Fiber Trace Software (EOFS110 Free Viewer Available Online)
EOFS200	Optical Fiber Cable Software
EUFCAD	Additional FC Universal Adapter
EUSCAD	Additional SC Universal Adapter
EUSTAD	Additional ST Universal Adapter
EULCAD	Additional LC Universal Adapter
EHCASE6	Hard Carrying Case



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