



VIAVI T-BERD/MTS

4100-Series FiberComplete Module

For T-BERD/MTS-2000,-4000 V2, -5800V2 Platforms

FiberComplete[™] is the first solution to fully automate all the fundamental fiber-qualification tests, such as bidirectional insertion loss (IL), optical return loss (ORL), and optical time domain reflectometry (OTDR), with one module from one optical port.

You can now equip each technician with a single piece of equipment that fulfills all of the traditional fiber testing requirements. The VIAVI 4100-Series FiberComplete module for the dual-slot T-BERD/MTS-4000 V2, single-slot T-BERD[®]/MTS-2000 and T-BERD/MTS-5800V2 handheld 10/100G network tester offers the most complete fibertesting solution for quick and easy use in characterizing point-to-point or point-to-multipoint passive-optical networks (PON).

Platform Compatibility

T-BERD/MTS-2000



One-slot handheld modular platform for fiber network testing

T-BERD/MTS-4000 V2



platform for testing fiber optic networks

T-BERD/MTS-5800V2



10/100G platform for multiprotocol network test



Two-slot handheld modular



Key Benefits

- One powerful unit equips field technicians with all the traditional fiber tests they need
- Cuts test time by more than half with fewer connections and disconnections, automatic continuity check, and an intelligent fault finder
- Minimizes training and gets reliable measurements using a single connection port that combines a fully automated process with easy-to-read results
- Optimizes workflow: Compiles test results into one complete cable view, automatically stores measurements

Key Features

- Make one connection, one-touch automated measurements
- Full setup and data exchange between near end and far end units for fewer mistakes and retests
- Smart Link Mapper (SLM) icon-based map view of the fiber link
- Real-time continuity check and automatic product pairing
- Manage fiber and cable results
- Step-by-step wizard lets you reference initial IL/ORL tests
- Smart Access Anywhere (SAA) for remote control and field tech support
- StrataSync enabled for centralized cloud based asset, configuration, test data and workflow management

Applications

- Measure bidirectional OTDR. IL. and ORL with one unit
- Troubleshoot in FaultFinder mode for immediate results
- Conduct acceptance tests in Bidirectional OTDR mode

Specifications (Typical at 25°C)

General							
Weight			0.35 kg (0.77 lb)				
Dimensions (w \times h \times d	128	128 × 134 × 40 mm (5.04 × 5.28 × 1.58 in)					
Applicable fiber		SMF 9/125 μm					
Interchangeable optica		FC, SC, LC (PC	or APC), and ST (PC)				
Built-in Power Meter	r (Mainframe) T-BERI	D/MTS-2000, -	4000 V2				
T-BERD/MTS mainfran	nes require the broadb	and power met	ter option for refere	encing.			
Measurement range					+5 to -50 dBm		
Absolute uncertainty					±0.2 dB		
Wavelength range					800 to 1650 nm		
OTDR							
	Central Wavelength	Pulse Width	RMS Dynamic Range	Event Dead Zone	Attenuation Dead Zone		
Metro-Access/PON	1310/1550/1625/1650	3 ns to 20 µs	43/41/41/41 dB	0.7 m	3 m		
(MA3)	(filtered) nm						
Source Function (also		mode)					
Laser safety class (21 C	EFR)				Class 1		
Wavelength at 25°C		1	1310±20 nm, 1550±20 nm, 1625±10 nm				
Spectral bandwidth 10 nn							
Output level into 9/125			−3.5 dBm				
Modulated output ave				3 dB less			
Modulation frequencies Continuous wave, 270 Hz, 330 Hz, 1 kHz,							
TWINtest and Auto-λ			All	wavelengths act	ivated consecutively		
Loss Test Set Functio	n						
Insertion Loss							
Loss range					40 dB		
Absolute uncertainty					±0.25 dB¹		
Repeatability				<0.05 dB ²			
Result resolution					0.01 dB		
Optical Return Loss							
ORL measurement ran	ge			Up to 55 dB			
Absolute uncertainty			±0.9 dB ³				
Repeatability					< 0.01 dB ³		
Length⁴							
Measurement range				150 km			
Absolute uncertainty					±30m		

^{1.} Using side-by-side reference

^{2.} Without disconnection

^{3.} From 20 to 40 dB range

^{4.} Measurement @ 1550 nm with an index of refraction n = 1.468 For the OTDR

Ordering Information

FiberComplete Module with OTDR and FaultFinder Functions*					
Description	Part Number				
1310/1550 nm FiberComplete with 43/41 dB MA3 OTDR	E4126MA3FCO ⁵				
1310/1550/1625 nm FiberComplete with 43/41/41 dB MA3 OTDR	E4136MA3FCO ⁵				
1310/1550/F1650 nm FiberComplete with 43/41/41 dB MA3 OTDR	E4138FMA365FCO-APC 5, 6				
1310/1550 nm FiberComplete with Fault Finder	E4126FCOFF				
1310/1550/1625 nm FiberComplete with Fault Finder	E4136FCOFF				
Options					
FiberComplete upgrade to add OTDR Function	EFCOMPOTDR-UPG				
Accessories					
Digital videoscope kit, including P5000i probe, soft case, and	ESDFSCOPE5KI				
7 inspection tips					
Optical Fiber Trace software	EOFS100				
SC/PC and SC/APC nonreflective terminators - FC/PC and FC/APC	ENRTERMSC - ENRTERMFC - ENRTERMLC				
nonreflective terminators - LC/PC non-reflective terminator					
LC mating sleeve - FC mating sleeve - SC mating sleeve	EMSSMLC- S3101 - S3111				
Nonreflective optical terminators kit	ENRTERMKIT				

^{5.} OTDR function available with E4126MA3FCO, E4136MA3FCO and E4138FMA365FCO-APC 6. Only 1310 & 1550 nm used in FiberComplete application

VIAVI Care Support Plans

Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

For more Information: go to viavisolutions.com/viavicareplan

Features *5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration
BronzeCare	Technician Efficiency	Premium	✓	✓	✓		
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	√ *	✓



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^{*}All FiberComplete modules come standard with SC, LC, and FC nonreflective terminations for zero ORL referencing (equivalent to a mandrel) and built-in light source option.