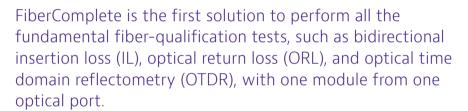


# T-BERD®/MTS-2000 MTS-4000 Platforms

4100-Series FiberComplete™ Module



You can now equip each technician with a single piece of equipment that fulfills all of the traditional fiber testing requirements. The Viavi Solutions 4100-Series FiberComplete module for the dual-slot, T-BERD/MTS-4000 and single-slot T-BERD/MTS-2000 offers the most complete fiber-testing 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



Two-slot handheld modular platform for fiber/copper and multiple services testing

# B: mashfagtine A: keryak A: keryak Max Space Max Cognector Max Reflectance Max Bend Max Bend Max Bend

CABLE

EL+ORL+Length 1550+13L0 3.45 ml FIBER 5 CARLE

### **Key Benefits**

- One powerful unit equips field technicians with all the traditional fiber tests they need
- Cuts testing almost in 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 and automatically stores measurements

### **Key Features**

- Make one connection, one-touch automated measurements
- Real-time continuity check and automatic product pairing
- Manage fiber and cable results
- Step-by-step wizard lets you reference initial IL/ORL tests

### 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 × 134 × 40 mm (5.04 × 5.28 × 1.58 in)		
Applicable fiber					SMF 9/125 µm
Interchangeable optical connectors			FC, SC, DIN, LC (PC or APC), and ST (PC)		
Built-in Pow	er Meter (Ma	ainframe)			
T-BERD/MTS m	nainframes requ	ire the broa	adband power me	eter option for	referencing.
			Standard		High Power
Measurement range			+5 to -50 dBm		+27 to -30 dBm
Absolute uncertainty			±0.2 dB		±0.25 dB
Wavelength range			800 to 1650 nm		800 to 1650 nm
OTDR					
	Central Wavelength	Pulse Width	RMS Dynamic Range	Event Dead Zone	Attenuation Dead Zone
Metro-Access (MA)	1310/1550/ 1625 nm	3 ns to 20 μs	37/35 35 dB	0.9 m	4 m
Metro-PON (MP)	±0.2 dB	3 ns to 20 μs	42/40/40/ 40 dB	0.8 m	4 m
Bidirectional	Test Set				
Source Function	n (also valid for	CW source	mode)		
Laser safety clas	ss (21 CFR)				Class 1
Wavelength at 2	25°C	1310±2	0 nm, 1490±20 n	m, 1550±20 nr	m, 1625±20 nm
Spectral bandwidth			10 nm maximum		
Output level into 9/125 µm fiber (CW mode			e) —3.5 dBm		
Modulated output average level			3 dB less		
Modulation frequencies C			Continuous wave, 270 Hz, 330 Hz, 1 kHz, 2 kHz		
TWINtest and A	ιuto-λ		All wavelen	gths activated	l consecutively
Loss Test Set	Function				
Loss range					40 dB
Absolute uncertainty			±0.25 dB <sup>1</sup>		
Repeatability			<0.05 dB <sup>2</sup>		
Result resolution	n				0.01 dB
Optical Return	Loss				
ORL measureme	ent range				Up to 55 dB
Absolute uncertainty					±0.5 dB <sup>3</sup>
Repeatability					<0.1 dB <sup>4</sup>
Length Function	n				
Measurement range					150 km⁵
Absolute uncertainty					±30m <sup>6</sup>

- 1. Using side-by-side reference
- 2. Without disconnection
- 3. From 10 to 45 dB range
- 4. From 20 to 40 dB range
- 5. Typical at 1550 nm
- 6. From 50 m to 20 km range

# **Ordering Information**

Description	and FaultFinder Functions*  Part Number		
1310/1550 nm FiberComplete with 37/35 dB MA OTDR with 42/40 dB MP OTDR	E4126FCOMP-MA/E4126FCOMP-MP		
1310/1550/1625 nm FiberComplete with 37/35/35 dB MA OTDR with 42/40/40 dB MP OTDR	E4136FCOMP-MA/E4136FCOMP-MP		
1310/1550/ Filtered 1625 nm Fiber- Complete with 37/35/35 dB MA OTDR with 42/40/40 dB MP OTDR	E4136FCOMP-RMA/E4136FCOMP-RMP**		
1310/1490/1550 nm FiberComplete with 42/40/40 dB MP OTDR	E4138FCOMP-MP		
1310/1550 FiberComplete Fault Finder	E4126FCOMP-FF		
1310/1550/1625 nm FiberComplete Fault Finder	E4136FCOMP-FF		
1310/1490/1550 nm FiberComplete Fault Finder	E4138FCOMP-FF		
Accessories			
Digital videoscope kit, including P5000i probe, soft case, and 7 inspection tips	EDFSCOPE5Ki		
Optical Fiber Trace software	EOFS100		
SC/PC & SC/APC nonreflective terminators - FC/PC & FC/APC nonreflective terminators - LC/PC non-reflective terminator	ENRTERMSC - ENRTERMFC - ENRTERMLC		
LC mating sleeve - FC mating sleeve - SC mating sleeve	EMSSMLC- S3101 - S3111		
Nonreflective optical terminators kit	ENRTERMKIT		

\*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.



Contact Us

**+1 844 GO VIAVI** (+1 844 468 4284)

To reach the Viavi office nearest you, visit viavisolutions.com/contacts.

© 2015 Viavi Solutions, Inc. Product specifications and descriptions in this document are subject to change without notice. fibercomplete-ds-fop-tm-ae 30168342 904 1012

<sup>\*\*</sup>Bidirectional IL and ORL functions are not available on filtered wavelengths.