



Manufacturer:

Viavi

Product Name:

VIAVI 4100 Series Quad OTDR Module for T-BERD/MTS Testers

Manufacturer Part Number:

E4146A-PC

Click here for more details on the VIAVI 4100 Series Quad OTDR Module for T-BERD/MTS Testers

VIAVI

4100 Series Quad OTDR Module

For T-BERD®/MTS-2000, -4000 V2, -5800 and OneAdvisor 800 Platforms

The VIAVI Quad OTDR module is the ideal test tool for installers/contractors, wireless service providers, or any user dealing with both single-mode and multimode applications every day. It is perfect for use in installing, turning up, and maintaining premises and enterprise, access, metro, and wireless fronthaul/backhaul networks.

The VIAVI Quad OTDR module features fast acquisition time, sharp resolution, up to a 26 dB multimode dynamic range, and up to a 37 dB single-mode dynamic range for installing and maintaining fiber links. Its integrated light source, accessible through both OTDR ports (multimode and single-mode), let users quickly identify fiber without switching ports and conduct a full range of fiber certification tests.

The Quad module's optical performance combined with a complete suite of platform enabled testing and reporting features ensures that testing is done right—the first time.

Standard test features include:

- Automatic macrobend detection
- Summary results table with pass/fail analysis
- Smart Link Mapper: Simple icon-based OTDR results view
- FastReport on-board report generation



Key Features

- Up to 37 dB dynamic range in single-mode and 26 dB in multimode
- Quad-wavelength version with 850, 1300, 1310, and 1550 nm
- Integrated continuous wave (CW) light source
- TIA/IEC pass/fail thresholds
- Propagation delay measurement in multimode (TIA-568-C)
- Certifies Tier 2 premises networks
- IEC 61280–4–3-compliant using an external modal controller



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Specifications

General (Typical at 25°C)			
Weight	0.4 kg (0.88 lb)		
Dimensions (w \times h \times d)	128 x 134 x 40 mm (5 x 5.28 x 1.58 in)		
Optical Interfaces	(3 × 3.25 × 1.35 1.1)		
Interchangeable optical connectors	FC, SC, LC, and ST		
Technical Characteristic	cs		
Laser safety class (21 CFR)	Class 1		
Distance units	Kilometers, feet, and miles		
Group index range	1.300000 to 1.700000 in 0.00001 steps		
Number of data points	Up to 256,000 data points		
Distance measurement	Automatic or dual cursor		
Display range	0.5 m to 260 km		
Cursor resolution	1 cm		
Sampling resolution	4 cm		
Accuracy	±0.5 m ±sampling resolution ±1.10-5 x distance (Excluding group index uncertainties)		
Attenuation Measuren	nent		
Automatic, manual, 2-point, 5-point, and LSA			
Display range	1.25 dB to 55 dB		
Display resolution	0.001 dB		
Linearity	±0.03 dB/dB		
Threshold	0.01 to 5.99 dB in 0.01 dB steps		
Reflectance/ORL Meas	surements		
Reflectance accuracy	±2 dB		
Display resolution	0.01 dB		
Threshold	−11 to −99 dB in 1 dB steps		
Optical Light Source			
CW Source output power level	-3.5 dBm		
Operating modes	CW, 270 Hz, 330 Hz, 1 kHz, 2 kHz, TWINTest		

Quad OTDR Modules (Typical at 25°C)			
Central wavelength ¹	850/1300 ±30 nm	1310/1550 ±20 nm	
Pulse width	3 ns to 1 µs	3 ns to 20 µs	
RMS dynamic range ²	26/24 dB	37/35 dB	
Event dead zone ³	0.55 m	0.65 m	
Attenuation dead zone ⁴	3 m	3 m	
Distance range	Up to 10 Km	Up to 260 Km	

^{1.} Laser at 25°C

Ordering Information

Description	Part Number		
Quad OTDR Modules and Options			
MULTIMODE/SINGLEMODE -850/1300/1310/1550 nm – PC	E4146A-PC		

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^{2.} The one-way difference between the extrapolated backscattering level at the start of the fiber and the RNS noise level after 3-minutes averaging at 500 ns in multimode and 20 μs in Singlemode

^{3.} Measured at ± 1.5 dB down from the peak of an unsaturated reflective event

^{4.} Measured at ± 0.5 dB from the linear regression using an F/UPC-type reflectance





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Test Process Automation (TPA)

Allows your team to deliver expert-level test results and close projects on the first try, every time. TPA is a closed loop test system that optimizes workflows, eliminates manual, error prone work and automates immediate data reporting for job close out, team progress updates and network health analytics. Execute jobs efficiently to ensure high quality network builds, rapid turn-up/activation and enhanced operational visibility.



Inspect Before You Connect (IBYC)

Contamination is the number 1 reason for troubleshooting optical networks. Proactive inspection and cleaning of fiber connectors can prevent poor signal performance, equipment damage, and network downtime.

