

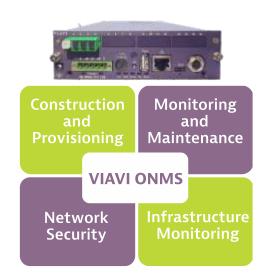
Compact Fiber Test Heads OTU-5000 Optical Test Unit

Deliver great service, faster revenue and reduced costs when you enable remote fiber test and automated monitoring with the most compact remote OTDR test head on the market!

The OTU-5000 Optical Test Unit combines optical time-domain reflectometry (OTDR) and optical-switch technology to provide continuous OTDR monitoring of multiple fibers anywhere in the network. A single OTU-5000 unit, monitoring 48 fibers of 100Km and more, occupies only a third of a Rack Unit!

The OTU-5000 offers all the features and performance of an OTDR and an optical switch in a small footprint. It has the capacity to test up to 48 point to point or point to multi-point fibers and more for a volume occupying only 1/3 of 1RU. The remaining 2/3 can be used by Test Access Point module to monitor fibers in service or to expand the switch capacity. OTU-5000 qualifies the network build then, detects and notifies users of any degradation affecting fibers when the network is in service.

The OTU-5000 is compatible with VIAVI ONMSi and SmartOTU software applications. The SmartOTU software allows the user to set up monitoring quickly with user friendly software and no training. The ONMSi software allows the user to institute a feature rich, network wide monitoring system while managing multiple OTUs concurrently.



KEY FEATURES

- Switch scalability up to 2304 ports
- Secured Web Browser Access (HTTPS)
- Ruggedised LINUX Operating System
- Small size: 48 ports in a third of RU
- Dual power feeds
- In service fiber monitoring
- Low power consumption
- PON Qualification tests with reflectors

KEY BENEFITS

- Ensure continuously good service at construction, service activation and beyond
- Anticipate service disruptions by detecting fiber degradation before it affects service.
- Reduce MTTR by locating fiber optic faults in minutes instead of hours
- Reduce operational costs by eliminating multiple erroneous dispatches
- Protect investments by monitoring longterm fiber performance
- Reduce construction costs by accelerating test processes and empowering test staff
- Protect network integrity and security by detecting and locating fiber intrusion

Applications

- Fiber monitoring for service providers, data centers, utilities, and dark-fiber providers
- FTTx construction, provisioning, and maintenance tests
- Fiber-tapping detection for critical applications
- Infrastructure monitoring (manholes, cabinets, etc)



OTU-5000 with a 48 port (Test Access Point) TAP and 48 port MPO switc

Specifications - (typical at 25°C)

Base Unit					
Height	1 RU				
Width	19, 21 (ETSI), or 23"				
Depth	260 mm (ETSI) 280 mm (19 - or 23")				
Operating temperature	-5 to 50°C				
Storage temperature	–20 to 60°C				
Humidity	95% without condensing				
EMI/ESD	CE compliant				
Interfaces	1 RJ45 Ethernet 10/100/1000BaseT ports				
Media	Solid-state disk				
Power Supply consumption	−36 to −59V 10W				
Internal Optical Switch	Internal Optical Switch				
Number of ports	2, 4, 8, 16 or 48				
Insertion loss (excluding connectors)	< 1.2dB				
Return Loss with connectors	> 50 dB				
Repeatability	+/-0.02dB				
Durability	> 2.5 Billions of cycles				
Connector Type	LCAPC up to 16 ports, MPO-12 (male) for 48 ports				
Base Unit					
Height	1 RU				
Width	19, 21 (ETSI), or 23"				
Depth	260 mm (ETSI) 280 mm (19 - or 23")				

OTDR (general)	
Laser safety	Class 1
Number of data points	Up to 512,000
Sampling resolution	From 4 cm
Distance range	Up to 260 km
Distance accuracy	±1 m ±sampling resolution ±distance x 1.10 ⁻⁵

	Short Range	Medium Range	
Wavelength (nm)	1625	1626	1650
Wavelength accuracy (nm)	+/-3 ^{1a}	+/-3 ^{1b}	+/-4 ^{1b}
Dynamic range ² (dB)	37	40	40
Pulse width	5 ns to 20 μs	5 ns to 20 μs	5 ns to 20 μs
Event dead zone ³ (m)	1	0.8	0.8
Attenuation Dead Zone ⁴ (m)	3.5	3	3

- 1a Laser at 25°C and measured at 10 μ s.
- 1b For the full temperature range and all the pulse width.
- 2 The one way difference between the extrapolated backscattering level at the start of the fiber and the RMS noise level, after 3 minutes averaging and using the largest pulse width.
- 3 Measured at ±1.5 dB down from the peak of an unsaturated reflective event using the shortest pulse width.
- 4 Measured at ±0.5 dB from the linear regression using a -55dB type reflectance and using the shortest pulse width.



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