VIAVI Solutions

Data Sheet

VIAVI T-BERD/MTS

CWDM and DWDM OTDRs

OTDR test solutions to deploy, maintain and troubleshoot CWDM, DWDM and hybrid CWDM/DWDM fiber networks

VIAVI CWDM and DWDM OTDR modules for the T-BERD/MTS-2000, –4000 V2, –5800 and Cell Advisor 5G platforms enable wireless/cable/telco operators to perform complete end-to-end link characterization and troubleshooting through MUX/DEMUX for newly deployed or active CWDM, DWDM and Hybrid CWDM/DWDM networks.

Easy to use

Configuration and setup of the instrument is greatly simplified using Smart Configs, pre-defined test configurations that ensure tests are carried out to your exact specs, driving consistency and repeatability.

OTDR Trace interpretation is also simplified with the Smart Link Mapper (SLM) application option which provides an easy to read icon based view of a fiber link (connector, splice, MUX, DEMUX, etc.) reducing the chance of OTDR trace interpretation errors and mis-diagnosing faults, all of which lead to faster job completion and reduced repeat truck rolls.

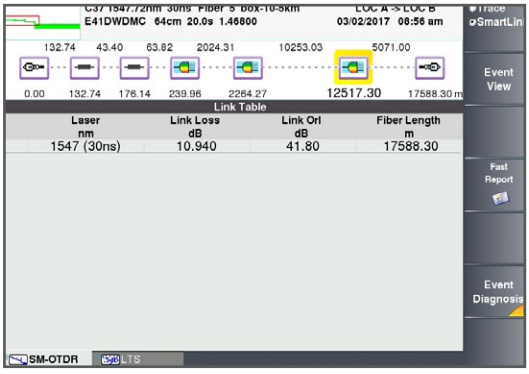
Benefits

- High performance single-ended test tool to qualify and troubleshoot Metro and Access WDM networks through MUX(s) and DEMUX(s)
- Deliver right-first-time deployment during construction
- Laser source at CWDM and DWDM wavelengths always standard
- Mainframes supported by StrataSync, VIAVI's asset and data management Cloud application

Applications

- Validating new WDM routes for new customers or capacity increases
- Verifying end-to-end continuity prior to service turn-up
- Troubleshooting faulty links without disrupting services

OTDR Result Page



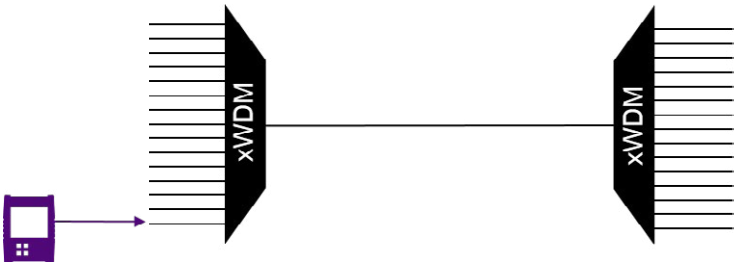
SLM icon-based fiber link view

CWDM Laser Source

DWDM Laser Source

Right tool for the Job

Standard OTDRs operate at 1310 and 1550nm which makes them the right tool to deploy point-to-point optical fiber cables but they can't test through WDM MUX and DEMUX. VIAVI CWDM and DWDM OTDR's flexibility and performance make them suitable for use during all phases of Metro and Access WDM network life-cycle and are the perfect tools to deploy right-first-time or perform in-service wavelength provisioning or troubleshooting through MUX and DEMUX.

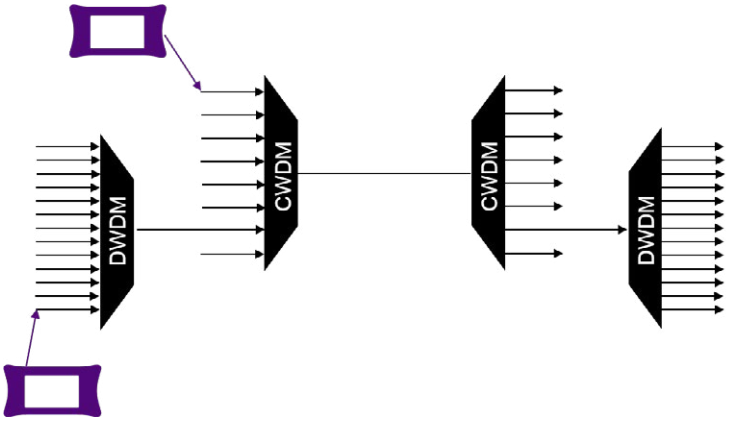


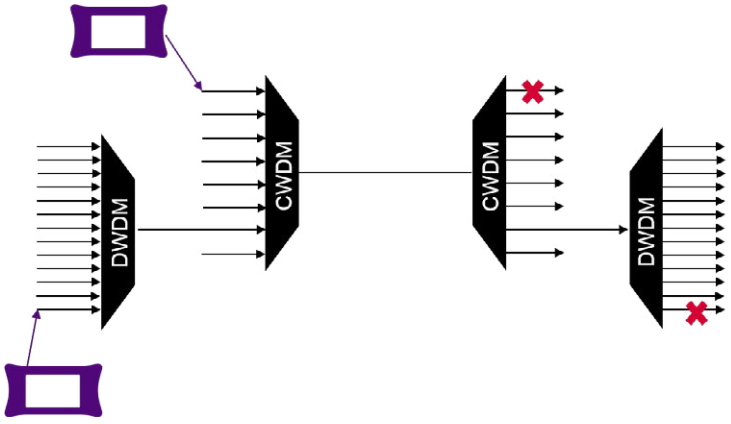
Construction

Get it right first time; validate all fibers prior to connection to verify length, total optic losses and to locate any impairments such as severe bends, high loss splices, etc. Once connections are made perform a complete end-to-end link characterization through MUX/DEMUX for all wavelengths to certify the network build.

Wavelength Provisioning

Reduce customer churn due to bad service quality; as new customer services are provisioned test and verify those specific DWDM wavelengths and routes without interrupting existing services to ensure network and service performance.





Troubleshooting

Avoid incurring SLA penalties; investigate and fix faulty links without disrupting traffic on active channels and avoid excessive network downtime or maintenance windows.

Part Number	Description
E41DWDMC-PC/-APC	DWDM OTDR Module PC/APC connector
	C-Band tunable 1527.99 - 1567.95 nm ITU channels C62-C12 (196.20 THz - 191.20 THz) – 50GHz/100GHz/200GHZ channel spacing
E41CWDM8U	CWDM OTDR Module
	8 CWDM wavelengths from 1471 to 1611nm
E41CWDM10L	CWDM OTDR Module
	10 CWDM wavelengths from 1271 to 1451nm

Supported by T-BERD/MTS-2000, -4000 V2, -5800 and Cell Advisor 5G; For more information on T-BERD/MTS-2000, -4000 V2, -5800 and Cell Advisor 5G test platforms or individual modules, refer to their respective data sheets

*Only DWDM OTDR module supported by Cell Advisor 5G

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