Data Sheet

VIAVI
Multi-Fiber MPO Switch Module
All-in-one integrated solution automating OTDR tests of MPO cables

Well suited for use in high-density fiber environments, multi-fiber MPO cables eliminate the expense of running individual patch cords for each service turn-up. Widely used in Data Centers interconnects, MPO cables are spreading into telecom access applications such as FTTH, FTTA or C-RAN. The use of an MPO switch is the best way to accurately and quickly characterize individual fibers of an MPO cables with an OTDR.

The rising bandwidth and cloud services demands have increased interest in fiber optics for data center networks. To achieve longer distances, higher capacities and higher-density connections, data centers operators are deploying singlemode multi- fiber MPO interconnects.

Singlemode multi-fiber MPO cables have also been more recently introduced into access telecom architectures such as FTTH, FTTA or C-RAN, enabling faster deployment, easier cable management and higher density fiber panels.

VIAVI T-BERD/MTS-4000 V2 OTDR Platform with MPO switch module is an all-in-one versatile solution to qualify, certify and troubleshoot multi-fiber MPO cables. Equipped with a single piece of equipment, field technicians no longer need to use fan-out/break-out cables to efficiently test and certify MPO links.
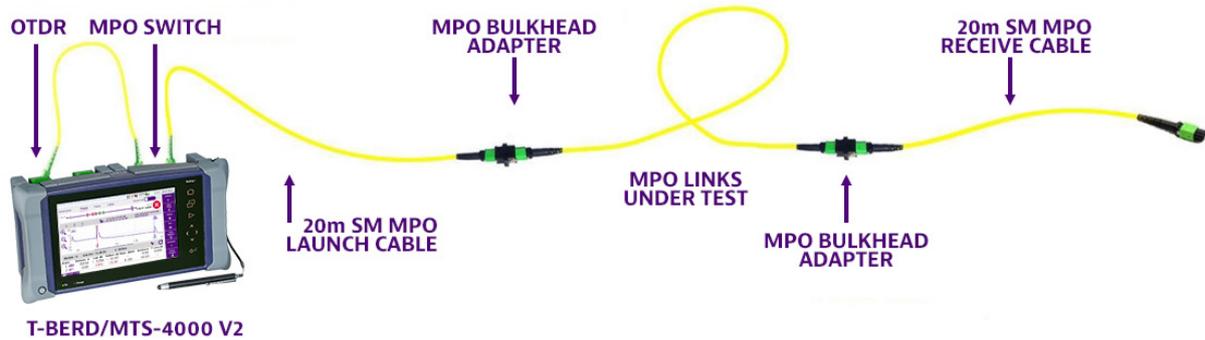

Benefits

- All-in-one and integrated solution for multi-fiber MPO cable characterization, certification and troubleshooting
- Replaces multi-fiber fan-out/break-out patchcords/cables
- Smart Link Mapper (SLM) Software applications automate test workflow

Features

- Singlemode 1x 12 MPO Switch Module
- Pinned APC MPO port for connection to MPO links to be tested
- SC/APC port for connection to OTDR test port
- Automatically controlled by the OTDR
- Enterprise-SLM and Cable-SLM Ready
- Compatible with T-BERD/MTS-4000 V2 Platform

Applications

- Data Center singlemode structured cabling
- FTTH/Access Networks MPO trunks
- Wireless Fronthaul (FTTA/C-RAN) MPO fiber cables

OTDR MPO SWITCH
MPO BULKHEAD ADAPTER
20m SM MPO RECEIVE CABLE
MPO LINKS UNDER TEST
20m SM MPO LAUNCH CABLE
MPO BULKHEAD ADAPTER
T-BERD/MTS-4000 V2

Specifications (Typical at 25°C)

Optical

Wavelength Range	1270 nm to 1650 nm
Insertion Loss [1][2]	1.2 dB typical
Input Port	SC / APC
Output Port	MPO APC (pinned)

General

Dimensions (w x h x d)	128 x 134 x 40 mm (5 x 5.28 x 1.58 in)
Weight	450 g (1 lb)
Operating Temperature	–10 to +50 °C (14 to 122 °F)
Storage Temperature	–20 to +60 °C (-4 to 140 °F)

1. Measured at 1310, 1550 and 1625nm
2. 2.5 dB maximum

Ordering Information

Part Number	Description
MPO Switch Module and Kit	
E41MPO12SM	SM 1x 12 MPO switch module for T-BERD/MTS-4000 V2 Platform with 30cm SC/APC to SC/APC and SC/APC to SC/PC bend insensitive jumpers
MPO12MODKIT-SM	SM 1x 12 MPO switch module for T-BERD/MTS-4000 V2 Platform with 30cm SC/APC to SC/APC and SC/APC to SC/PC bend insensitive jumpers, (2x) 20m SM launch and receive MPO cables (pinned-unpinned), (2x) MTP/MPO bulkhead adapter with opposed key
Accessories	
ENTERPRISE-4K ENTERPRISE4KUPG	Enterprise-SLM OTDR software application for T-BERD/MTS-4000 V2 Platform. Enables Tier 2/advanced certification of single fibers and multi-fiber MPO cables in DataCenters and Enterprise-structured cabling
ESMARTCABL4K ESMARTCABL4KUP	Cable-SLM OTDR software option for T-BERD/MTS-4000 V2 Platform. Simplifies OTDR testing of single fiber cables and multi-fiber MPO cables in Telecom applications
ECLIKCLEANERMPO	IBC Cleaning Tool for MTP/MPO connectors

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