

VIAVI

High Capacity MPO Based External Switches

Enable high capacity automated bulk fiber testing for high fiber count cables

The high capacity external switches portfolio is optimized for high fiber count cables or many FTTP service points such as FTTH and DAA/DWDM networks.

For increased versatility, it offers 48, 96, 144 or 192 ports.

Data Center high fiber count cables acceptance tests (OTDR or Bi-directional OTDR) can be performed with an automatic bulk sequence in order to accelerate the whole test's workflow. During network construction, contractors can rapidly test many fibers remotely from a single central point (such as a local office) and optimize their resource allocation with a highly cost effective solution.



High Capacity External Switch with Connecting Kit



OneAdvisor 800 Modular test platform with 3 slots, designed for use in the installation and maintenance of fiber, wireless and transport applications.



T-BERD/MTS-4000 V2 Two-slot handheld modular platform for testing fiber optic networks

Benefits

- Save time:
 - Automatically run OTDR tests in a bulk sequence (up to 192) and get rid of idle time
 - Automatically generate and archive results files, fiber and cable reports
- Measure with confidence:
 - Answer to all test needs with one button START : OTDR or Bi-directional OTDR on simplex or multi-fibers networks
 - Ensure reliable testing of MPO native networks with reduced manual process and complexity
- Empower your workforce:
 - Optimize resource allocation during Backbone/ FTTH construction: technician expertise can be deployed in the field instead of remaining in the central office
 - Remotely launch or control all tests with SmartAccess Anywhere (SAA) SW option

Features

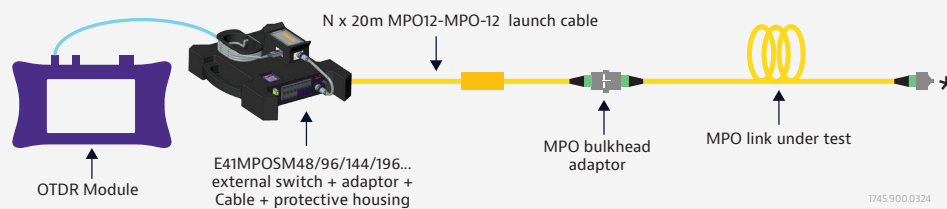
- High capacity external switches with connecting kit from 48 up to 192 ports
- Field solution, conveniently powered by the test platform
- Efficient workflow with automated switching up to 192 ports through Cable-SLM software
- Compatible with OTDR A, B, C, 4100 series modules and with TrueBIDIR software options
- External connection to T-BERD/MTS-4000V2 and OneAdvisor 800 via USB
- StrataSync enabled: centralized cloud based asset, configuration, test data and workflow management

Applications

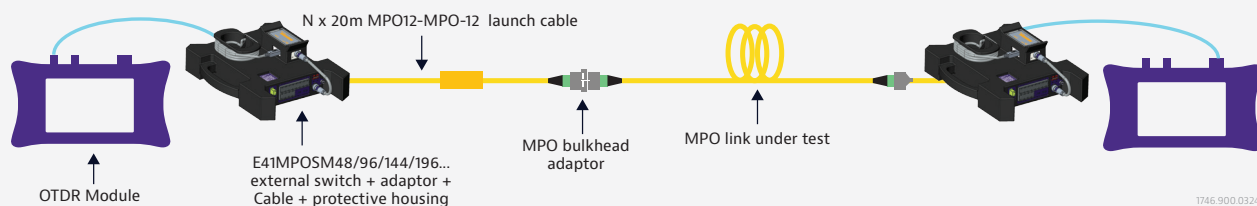
- Construction – High fiber count cables certifications:
 - DataCenter interconnect
 - FTTH/Access
 - All Native multi-fibers connector links (MPO, MTP...)

High Capacity External Switch for Certifying Native Multifiber MPO/MTP Links

OTDR Tests

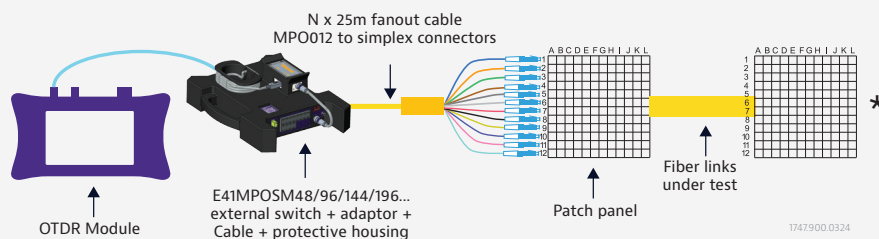


Bi-directional OTDR Tests with TrueBIDIR SW Option

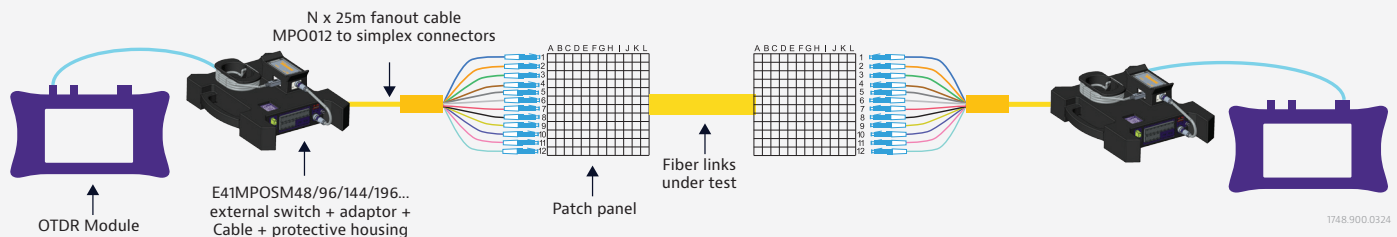


High Capacity External Switch With Fanout/Breakout Cable – Bulk Certification of Simplex Fibers

OTDR Tests



Bi-directional OTDR Tests with TrueBIDIR SW Option



* Receive cable can be installed at the far end to characterize the last connector.

Bulk Certify Up To 192 Fibers in One Automatic Sequence

- The automated switch sequence is managed with Cable-SLM application. Its intuitive interface provides an overview of a high fiber count project with pass/fail status of each fiber/connector tested (dedicated cable view within Expert OTDR or FiberComplete PRO applications).

Label	Status
A01-PP01_01	Pass
A01-PP01_02	Pass
A01-PP01_03	Pass
A01-PP01_04	Pass
A01-PP01_05	Pass
A01-PP01_06	Pass
A01-PP01_07	Pass

Cable view: Project with label option

- A "Test All Fibers" function initiates a fully automated test sequence and delivers a visual verdict of each individual fiber of a 12-fiber MPO connector

Fiber	7	8	9	10	11	12
Visual Verdict	Pass	Pass	Pass	Pass	Pass	Pass
Table Data	1310 nm, 0.087 dB, 47.42 dB, 152.4 m	1550 nm, 1.780 dB, 43.51 dB, 150.8 m	1625 nm, 5.391 dB, 31.46 dB, 150.7 m			

- Manage group up to 192 with a switch sequence starting at any fiber number needed with the Cable-SLM project management

Fiber	1	2	3	4	5	6	7	8	9	10	11	12
Visual Verdict	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Table Data	1310 nm, 0.087 dB, 47.42 dB, 152.4 m	1550 nm, 1.780 dB, 43.51 dB, 150.8 m	1625 nm, 5.391 dB, 31.46 dB, 150.7 m									

Cable view: Project without label option

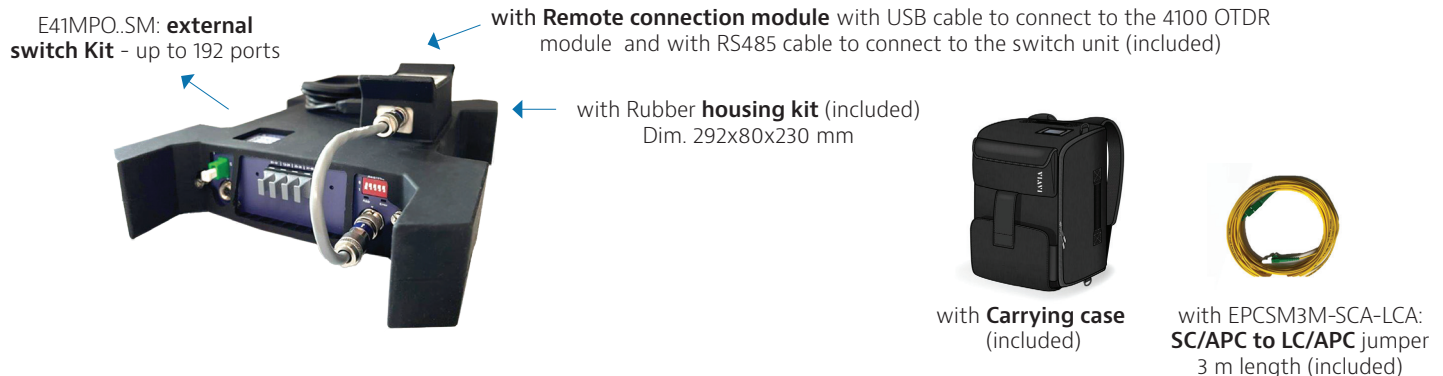
- Possibility to troubleshoot a specific fiber and get a precise diagnostic of the fault

Parameter	Value
Loss (dB)	0.015
Reflectance (dB)	-40.31
Distance (m)	13.56
Loss (dB)	3.992
Reflectance (dB)	-25.98

Specifications – (typical at 25°C)

General	
Dimensions	Depth: 292 mm Height: 80 mm Length: 230 mm Weight: 1.5 kg
Operating temperature	-20°C to +60°C
Storage temperature	-20°C to +60°C
Interfaces	RS485
Power supply	Powered by the mainframe unit via USB port cable (supplied with the switch connecting kit)
Optical Specifications	
Number of Ports	48, 96, 144, 192 ports + one common port
Operating Wavelength Range	1270 nm - 1670 nm
Insertion Loss (excluding connectors) for 48 ports	<1.2 dB from 1600 nm to 1670 nm <1.6 dB from 1528 nm to 1600 nm
Insertion Loss (excluding connectors) for 96, 144, 192 ports	<1.8 dB from 1600 nm to 1670 nm <2.6 dB from 1528 nm to 1600 nm
Return Loss with connectors	>50 dB
Connector Type	Common Port: LC/APC Output ports: MPO-12 APC (pinned)

The part numbers listed below include 1x external switch mounted in a protective carrying kit, with 1x 3m jumper LC/APC to SC./APC, with RS485 to USB adapter including 1x USB and x1 RS485 cable, all packed in a carrying case.



Description	Part Number
High-Capacity external switch with connecting kit - 48 ports	E41MPO48SM
High-Capacity external switch with connecting kit - 96 ports	E41MPO96SM
High-Capacity external switch with connecting kit - 144 ports	E41MPO144SM
High-Capacity external switch with connecting kit - 192 ports	E41MPO192SM

Accessories

Description	Part Number
1x 25 m SM MPO unpinned to MPO pinned launch cable	ELCSM25A-MPOF-MPOM
1x 25 m SM MPO unpinned to MPO unpinned launch cable	ELCSM25A-MPOF-MPOF
1x 25 m SM fanout launch cable MPO unpinned to SC/PC	ELCSM25-MPO-SC
1x 25 m SM fanout launch cable MPO unpinned to SC/APC	ELCSM25-MPO-SCA
1x 25 m SM fanout launch cable MPO unpinned to LC/APC	ELCSM25-MPO-LCA
1x 25 m SM fanout launch cable MPO unpinned to LC/PC	ELCSM25-MPO-LC
IBC Cleaning Tool for MTP/MPO connectors	ECLIKCLEANERMPO

Software Options

Description	Part Number
Cable management software option for new platforms. Allows the configuration of an automatic switch sequence	ECABLESLM
Cable management software option for installed platforms. Allows the configuration of an automatic switch sequence	ECABLESLM-UPG