

Mini RFTS

Cost-effective optical fiber monitoring

Mini RFTS (Remote Fiber Test System) is a compact solution for monitoring a small number of optical fibers using an Ethernet switch from any vendor and Smart SFP module with OTDR function. This solution can monitor fiber integrity and quickly determine the distance to the break point.

To obtain the measurement results, it is enough to install one or more Smart SFP OTDR modules to a managed Ethernet switch that supports of reading information about the inserted SFP module. The information about the presence of a fiber break and the distance to the point is obtained by polling the Ethernet switch or by sending messages from the Ethernet switch itself.

Mini RFTS system allows to monitor dark and light optical fibers in networks of different levels and types – FTTx, PON, CWDM.

There are two possible usage options:

1. Install multiple Smart SFP OTDR modules in a quantity corresponding to the number of fibers to be monitored. This option allows direct identification of the failed fiber and the distance to the break point. The advantage of this option is the ability to install modules with different wavelengths.

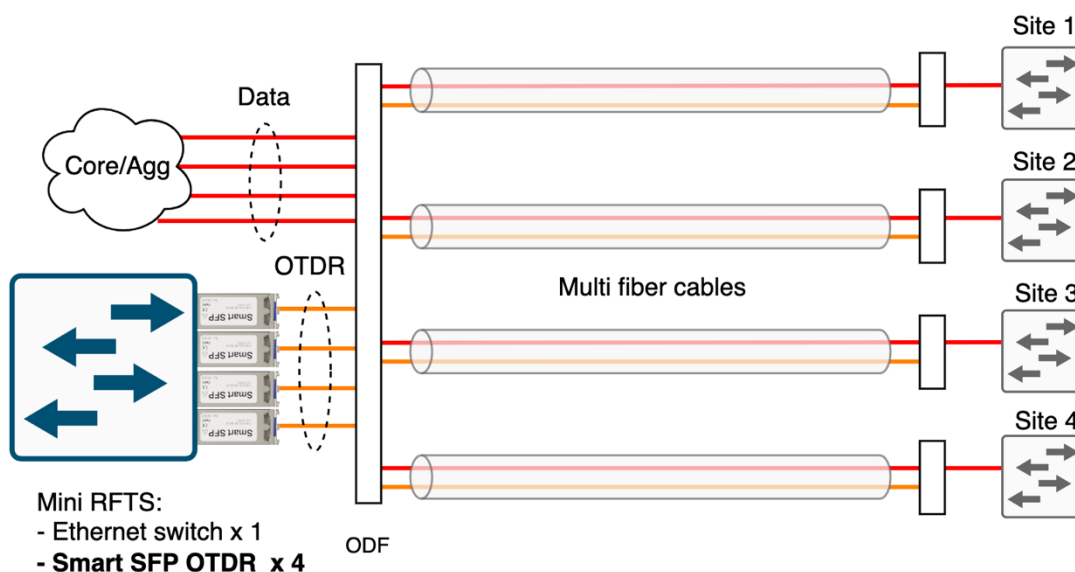
2. Install a single Smart SFP OTDR module and connect it to multiple fibers via an optical splitter. This option allows to identify the failed fiber and the distance to the break point, based on the OTDR results and the interface status of the network equipment. With this option the maximum distance is less because of the additional attenuation introduced by the optical splitter.

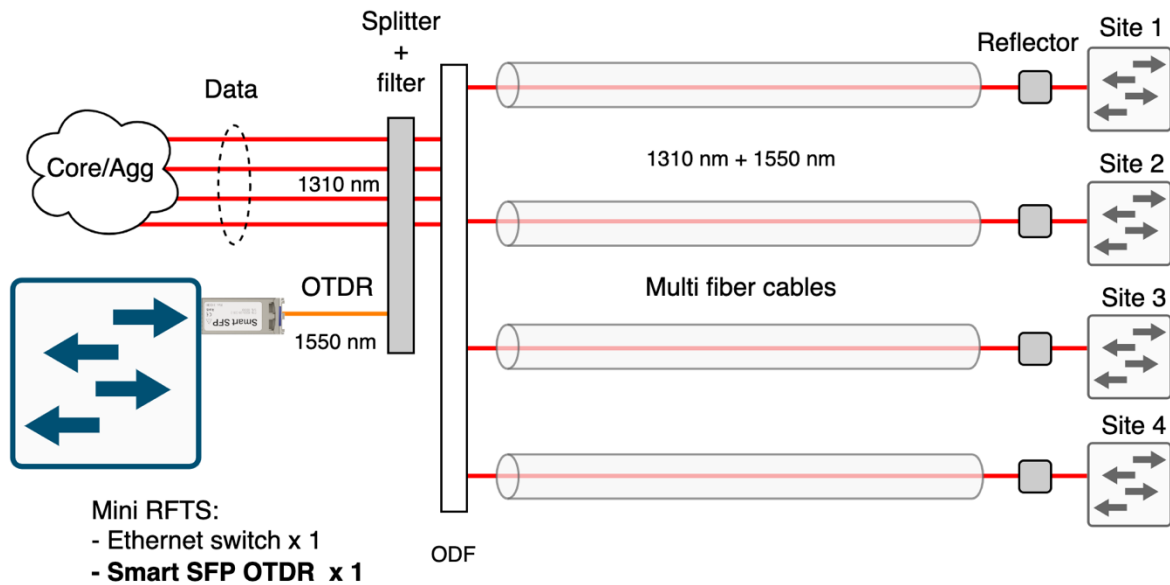
Applications:

- Metro, Access
- FTTx, PON
- CWDM
- Light fiber (In-service)
- Dark fiber (Out-of-service)

Key features:

- 24x7 monitoring
- Re-use of existing gear
- Compatible with any Ethernet switch/router
- Automated fault location
- 10/25/40/50/100G links with FWDM
- Mix and match wavelengths
- Alarming
- Ready for operation directly from the box
- Cost-effective





Fiber monitoring:

- Wavelength: any CWDM, 1625, 1650 nm
- Distance up to 50 km
- OTDR optical budget 56 dBm
- Measuring distance accuracy: 5 to 50 m
- Dark and light fibers
- Monitor multiple fibers with single module
- Result in meters or miles
- Getting results – push and pull modes

Management:

- CLI, Web, SNMP, Syslog, API, I2C¹
- Report measurement result over:
 - module IDs – Vendor name, Serial number
 - DDM – Bias current, Temperature
- Front LED to indicate operating mode

General:

- Digital Diagnostics Monitoring (DDM)
- SFP MSA compliant
- Multi-vendor compatibility
- Industrial temperature

Ordering information

Intelligent SFP module, Fiber Fault Reflectometer, 56 dBm, Gigabit Ethernet, STM-1/4, DDM, 1550 nm, 50 km, SMF, LC/UPC

Intelligent SFP module, Fiber Fault Reflectometer, 56 dBm, Gigabit Ethernet, STM-1/4, DDM, 1510 nm, 50 km, SMF, LC/UPC

Intelligent SFP module, Fiber Fault Reflectometer, 56 dBm, Gigabit Ethernet, STM-1/4, DDM, 1650 nm, 45 km, SMF, LC/UPC

Optionally - any CWDM and 1625 nm wavelength

¹ - depends on host capabilities

Find out more: plumspace.com, info@plumspace.com

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