Technical Information

RTU (Remote Test Unit)

Overview

The RTU is an automatic measuring system for installation, measuring and monitoring of fiber optic networks. The basic unit consists of a high performance state of the art OTDR module and a modular optical switch unit. The RTU is a part of FOCs Remote Fiber Test System (RFTS). As a part of the RFTS the RTU can be combined with software, additional OTDR units to support additional wavelengths, with switches for addressing larger networks and with interface units for the integration into customer networks.

Main Features

- Standard measurement wavelength 1650 nm (+/- 5 nm)
- Integrated 1310 nm / 1550 nm cut filter for live-fibre monitoring
- High dynamic range, suitable for Point-To-Point (PTP) - and Point-To-Multi-Point (PTMP) – application
- High flexibility, can be integrated via different port extension units (e. g. SIM, PIM, etc.)

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General specification

- Remote control interface: LAN port, 10BASE-T / 100BASE-TX
- Service control interface: USB port, USB1.1
- DC power interface: 12V DC, max. 1.5 A

OTDR unit interface specification

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- Service control interface: USB port, USB1.1
- DC power interface: 12V DC, max. 1.5 A

OTDR unit basic specification

- Wavelength: 1650 nm +/- 5nm
- Pulse optical output: <= + 15 dBm
- Dynamic range: dep. from pulse width, e.g. 37 dB for 20 µs
- Pulse width: >= 3 ns
- Laser safety standard: 1M (IEC 60825-1)

General specification

- Operation temperature: 0 °C to +60 °C
- Operation humidity: <= 85 % R.H. (no condensation)
- Operation altitude: <= 2000 m
- Dimension: 19" / 2HU, overall depth 300 mm (opt. connectors excluded)
- Weight: appr. 3 kg

Configuration options

- Connector type
- Additional wavelengths

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