

RXT-4100+ OTDR Module

500,000 Data Points with 3 cm Resolution



RXT-1200

Modular Test Platform

The RXT-4100+ Fiber Optics test module for the VeEX® RXT-1200 platform is the world's first field portable OTDR to offer up to 500,000 data points with 3 cm resolution. The RXT-4100+ features a range of Optical test functions including OTDR, OPM, Light Source and VFL. Multi-protocol OTN, SDH/SONET, Ethernet, Fibre Channel and Synchronous Packet Networks utilizing optical fibers can easily be verified as well as OSA testing on CWDM/DWDM network with a single test platform ensuring maximum test productivity.



Platform Highlights

Software

- Flexible modular architecture supports multiple technologies and applications
- ReVeal™ PC software to maintain instrument firmware, manage test configurations, process measurement results and generate customer test reports
- Fiberizer Desktop PC software for fiber trace analysis
- Fiberizer Cloud based trace analysis and data management
- R-server support for centralized work force management and test results repository

Hardware

- High resolution, 7" full color TFT touch-screen viewable in any lighting condition
- Connectivity via 10/100Base-T Management interface, WiFi™, Bluetooth®, or 3G Card for back office applications
- Built-in microphone and speaker for VoIP & VF applications
- Intelligent fan operation with built-in temperature sensor
- Interchangeable Li-ion battery pack for extended test time
- USB-A Interface for USB flash drives and fiber inspection probe connection
- Optional built-in GPS module for Geotagging OTDR traces

Key Features

Optical Testing

- Multimode and Singlemode Wavelength options - 850, 1300, 1310, 1490, 1550, 1625 & 1650 nm
- Filtered 1625 or 1650 nm OTDR port for in-service measurements
- OTDR ports feature live fiber detection
- High dynamic range for long haul fibers and testing through high-count PON splitters
- Sampling points up to 500,000
- FTTx/PON optimized test parameters for best in class dead zones
- Event dead zone < 1m, Attenuation dead zone⁵ < 4m
- Telcordia GR-196 and SR-4731.sor file formats
- Optional V-Scout/V-Profile mode – Intelligent Link Mapping using intuitive icons derived from multiple test acquisitions
- Optional Built-in Visual Fault Locator
- Optional Optical Power Meter with WaveID detection
- Optional Light Sources with WaveID and Loop mode
- Optional Fiber Inspection Scope (USB)
- Upload OTDR traces, OLTS results and Fiberscope images directly to Fiberizer Cloud
- Built-in G.657 launch fiber
- Universal 2.5 mm optical interfaces with inter-changeable optical adaptors (SC/FC/ST/LC)



Add value with
Fiberizer Cloud
www.fiberizer.com

Multi Service Applications

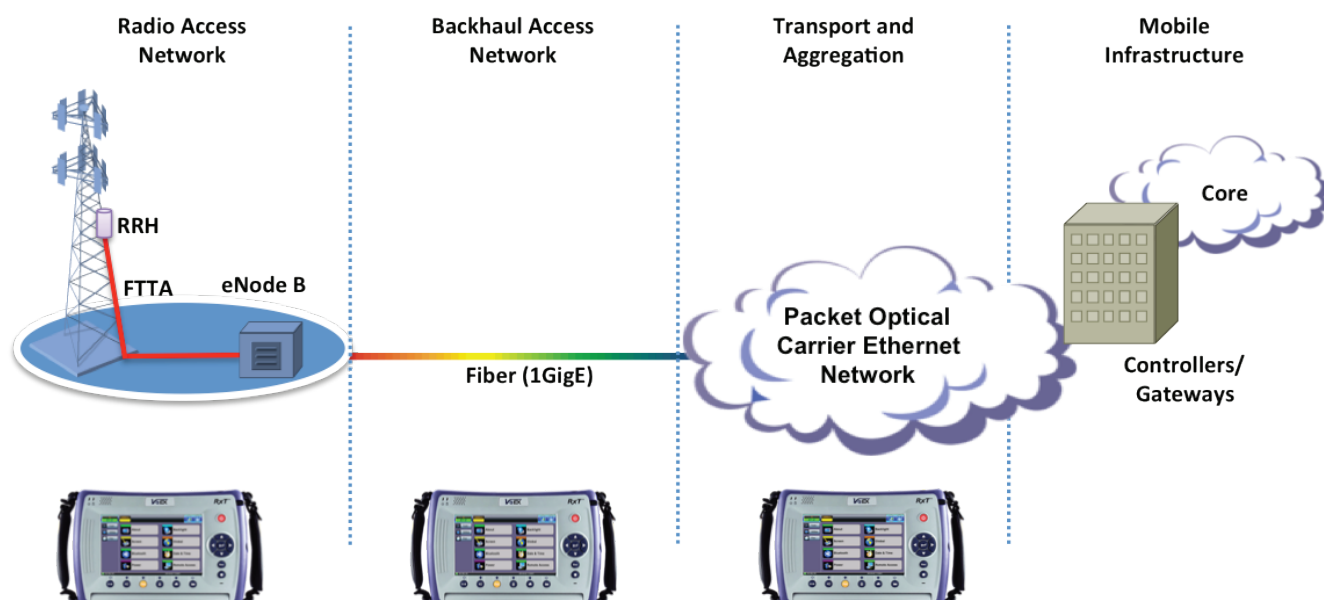
Today's converged transport and service networks operating on optical fiber infrastructures demands a test tool that incorporates a range of test functions without compromising capability, portability, speed or cost. Leveraging the powerful "tried-and-tested" VePAL V300 platform, the RXT-4100+ OTDR tackles both optical physical layer and Ethernet test challenges head-on.

Mobile Network Optical Testing

Packet-optical networks play a key role in aggregating mobile traffic and handling the mix of circuit/TDM and IP/Ethernet traffic transport ensuring a smooth transition to an all-IP infrastructure. Optical fiber has long been considered to be the optimal access technology because it offers the best characteristics for capacity and QoS. There are many fiber options including GPON, Carrier Ethernet, and dark fiber/wavelengths present in mobile networks today including Fiber-to-the-Antenna (FTTA) in the Radio Access Network. Providers are increasingly being forced to replace traditional coaxial-based systems with fibers to the top of the cell tower, in an effort to squeeze out more capacity to meet the demand for LTE/4G services.

So as existing cell towers are retrofitted with 2nd and 3rd generation FTTA systems and the backhaul access network evolves rapidly to optical fiber, service providers not only need technicians who are skilled in fiber cable installation, testing and repair, but also a flexible multi-functional tester that can support a variety of optical and Ethernet tests. Fiber testing is now considered mandatory as part of any mobile site build documentation, especially as these records will enable any fast and successful field repair in future.

Packet Optical Mobile Backhaul



The RXT-4100+ OTDR Solution

Fiber centric Ethernet is fast becoming the dominant access and metro technology for many operators, and field technicians have to be equipped with a test solution that allows them to characterize the fiber as well as the Ethernet transmission running over it. The powerful RXT-4100+ OTDR responds to this demand by integrating the right combination of optical tools and test features so that a fiber link can be qualified in a single platform, eliminating additional truck rolls. The RXT-4100+ OTDR all-in-one Optical solution offers:

- Multimode/Singlemode OTDR - locate and characterize fiber link, splice and connector losses
- Fiber Fault Finder - quickly find breaks and bends with improved accuracy due to having upto 500,000 datapoints and resolution as low as 3 cm
- Power meter and light source - perform power and loss measurements
- Visual Fault Locator - check patch cords and enclosures for light leakage
- Fiberscope - check dirty and/or damaged connectors
- Built-in launch fiber to characterize very short fiber spans and loss characteristics of the first connector of fiber under test

Optical Time Domain Reflectometer (OTDR)

Intuitive Test Setup

An intuitive menu structure offers simple test setup for Novice and Expert users alike. Test parameters can be configured manually by the user or set automatically by the unit.

Several wavelength combinations covering both multimode and singlemode applications are available, including short haul FTTX, Metro and Long Haul networks.



Live Fiber Check

The OTDR port also functions as an integrated power meter to detect optical power levels. This feature warns the user when the OTDR is connected to a fiber carrying live traffic thus preventing any possible service interruption.

This safety mechanism also prevents accidental overload and potential receiver damage. The unit automatically checks if light is present at the test interface prior to making measurement and will disable the transmitter if an active fiber detected.

Analysis Thresholds

User defined thresholds for splice loss, connector loss, fiber lengths and reflectance can be preset to assess a fiber's condition. Color coding used in the event table will display events exceeding Pass/Fail thresholds and alert technicians of a potential problem.

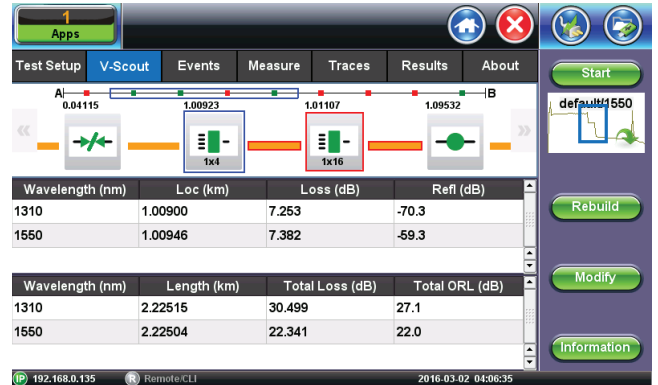


Latency Measurement

VeEX OTDRs can be used to measure latency in a fiber span. Latency is the time it takes for the signal to travel from point A to point B. Within the optical fiber itself, latency is dependent upon the refractive index and remains relatively constant at a specific optical wavelength. These fiber properties allow data center operators, especially those providing co-location services to the financial sector, to "calibrate" and optimize optical links to ensure uniform latency among all customers.

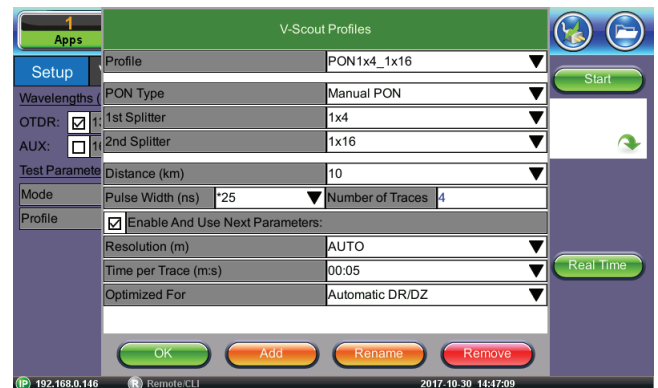
V-Scout Link Mapping

Advanced algorithms evaluate separate acquisitions and characterize the fiber span using intuitive symbols. Each individual acquisition can be customized and user defined as a test profile depending on network type or application. This optional feature eliminates event interpretation and provides greater analysis confidence to the user, regardless of OTDR skill set.



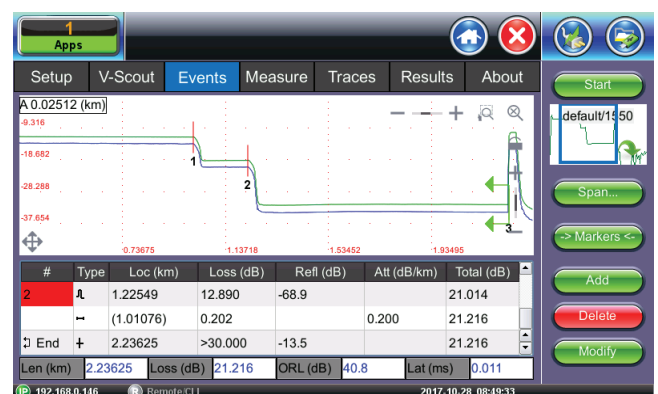
V-Scout Profiles

V-Scout Profiles put the operator back into the driver seat. Users can now build their own custom VScout test Plan and optimize it for their specific project using VScout Profiles test mode. This test mode is automated testing without giving up control. Just tell us the maximum test range and V-Scout profile will recommend the test pulse you should use but you have the power to add/change/delete settings. You can choose to accept the default settings for Resolution and Test Time or override them as well.



Accurate Event Analysis

Reliable event detection and accurate analysis are crucial to document fiber links properly at the time of installation. These baseline records are essential to troubleshooting faulty fiber networks and reducing system downtime afterwards.



Visual Fault Locator (VFL)

The RXT-4100+ OTDR employs specialized techniques developed from decades of experience to locate and measure connectors, splices, optical splitters and macro-bends.

The optional Visual Fault Locator is a useful tool to identify poor connections, bad fusion splices and macrobends in fiber management closures. Operating at 650 nm, this visible source offers up to 5 km (3 miles) of range.



Optical Light Source (OLS)

The OTDR port can operate as a stable light source for loss testing. The output supports WaveID which automatically sets the wavelength when paired with compatible VeEX optical power meters. The source output can also be modulated for use with industry standard fiber identifiers.

Internal Launch Fiber

Near end fiber analysis is greatly improved thanks to a built-in G.657 launch fiber. Excellent dead zone performance and 3 cm sampling resolution allows the OTDR to evaluate loss and reflectance of the first connection and short fiber spans common in FTTA applications.

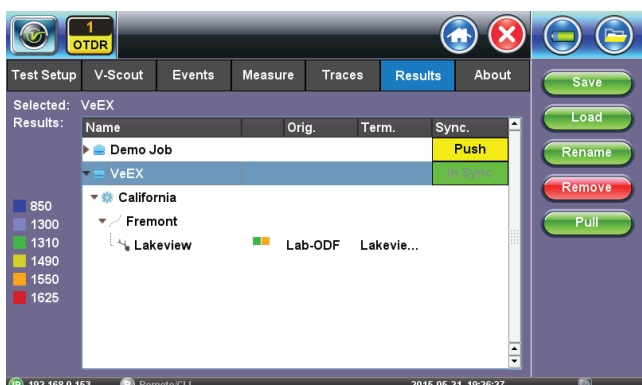
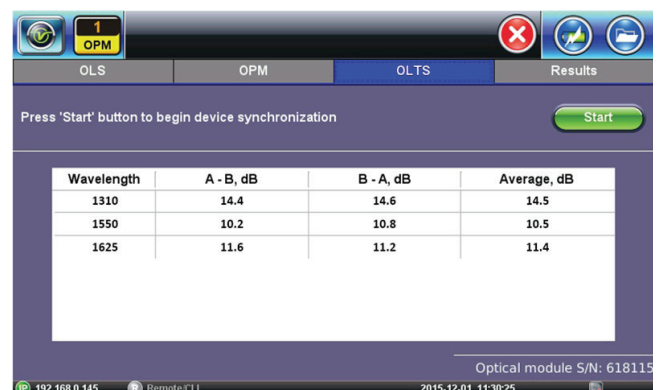


Optical Loss Test Set (OLTS)

Bidirectional loss testing for up to four wavelengths are supported. An intuitive patchcord referencing procedure reduces reference errors ensuring accurate and repeatable insertion loss measurements. Predefined pass/fail thresholds, cable identification parameters including technician comments can be saved.

OTDR Results

Traces in the Telcordia SR-4731 sor format are saved in a logical hierarchy for easy sorting and archiving. Trace files can be pushed directly to Fiberizer Cloud from the tester using an Internet connection so that work supervisors have immediate access to test data being measured on site. Reference trace files can also be "pulled" from Fiberizer Cloud server for troubleshooting and restoration purposes.



ReVeal RXTS PC software

ReVeal RXTS is an all-in-one software tool included with every RXT-4100+ OTDR. The Windows compatible software enables the transfer of test data and other setup criteria between the tester and a PC.

Features include:

- Create test profiles and Pass/Fail thresholds offline to eliminate setup errors
- Archive test results and related installation information
- Generate professional acceptance reports
 - OTDR traces
 - Certification loss results/OPM loss results
 - Connector end-face images from Fiber Inspection scope
- Batch editing of OTDR traces using embedded Fiberizer utility
- Multi-language support including English, French, German, Spanish, Portuguese, and Russian

Optical Power Meter (OPM)

An optional Optical Power Meter (OPM) can be fitted to measure absolute or relative optical power levels. Results can be saved manually or continuously for laser drift monitoring. The OPM incorporates a highly sensitive and stable InGaAs detector with eight calibrated wavelengths providing accurate level measurements from +10 to -65 dBm. A high power version is available for CATV applications for levels ranging from +25 to -50 dBm.

WaveID

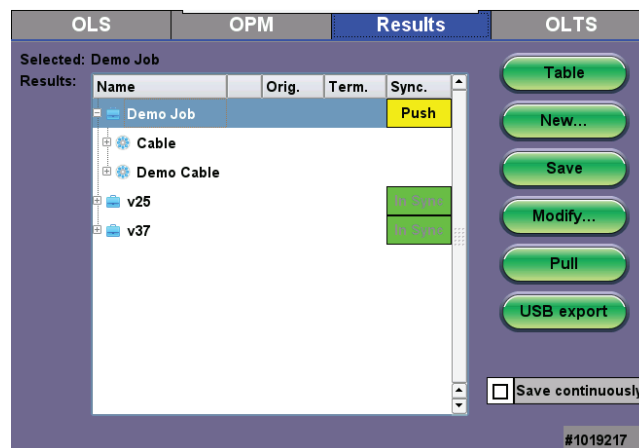
The OPM employs WaveID, a unique wavelength detection system common to most VeEX optical test products. The OPM automatically recognizes a single or multi-wavelength signal transmitted by another VeEX optical OLS with WaveID connected to the far end of the link under test. The OPM measures the level at the corresponding wavelength automatically, eliminating setup errors and saving test time.

PON Network Installation

The PONT OPM option is designed for ONT splitter installation testing and rapid ONT troubleshooting. The OPM measures downstream signals simultaneously using PON specific wavelength filters and a specialized photo detector. Both 1490 nm (Std. data) and 1550 nm (video) power levels or 1490 nm (Std. data) and 1610 nm (Alt data) at the ONT or other FTTx PON test points can easily be verified.

Test Results

OPM and OLS test data can be saved to internal memory using the same file-naming convention applied to OTDR traces. Saved results can be exported to USB for offline report generation or push/pull to Fiberizer Cloud depending on User documentation requirements.



Switchable Adapters

The OTDR and OPM interfaces accept VeEX thread-on adapters, which can be swapped out in a matter of seconds. The UCI (Universal Connector Interface) and removable adapters interface with a variety of industry standard connector styles fitted with either angled or non-angled connector versions. A protective dust cap to protect the adapter from dirt and other contaminants is also included.



OTDR Trace Analysis and Documentation

Fiberizer™ Desktop

Fiberizer Desktop is a standalone PC software application to analyze traces acquired by the RXT-4100+ OTDR. Supplied as a standard accessory, Users can edit traces manually, create event tables, generate reports using built-in templates and much more. This viewer displays trace files conforming to Telcordia (Bellcore) GR-196 & SR-4731 *.sor formats, and offers both 2-point and 5-point loss measurement modes. It also supports batch processing, a very useful feature for analyzing multiple fibers in a single cable. The software does not require Internet access to operate, but it can be interfaced with Fiberizer Cloud OTDR trace viewer at any time.

Work from Anywhere, Anytime

Fiberizer™ Cloud

Fiberizer Cloud not only empowers the OTDR, but also the Workforce. Going way beyond traditional OTDR reporting methods or concepts, this cloud-based solution provides superior centralized test data management capabilities including powerful web based trace analyses. You can work from almost anywhere, at anytime because Fiberizer Cloud is a full online web service.

Streamlining onsite data reporting

Fiber technicians and contractors tasked to validate new fiber installations or restoring cable routes after an outage are generally obliged to submit measured data (.sor files) and related documentation to the network operator as proof of delivery before being paid. Valuable time however is often wasted after the onsite work is completed, because critical test files are usually first stored to some local storage media before being transferred to a colleague via email for verification and further reporting.

Fiberizer Cloud streamlines this information exchange, eliminating costly paper, e-mail or other time consuming communication methods - instead, time wastage can be avoided by transferring traces of jobs completed directly from the OTDR to Fiberizer Cloud. Professional PDF or MS Excel reporting functionality is also available, and users can create their own templates for reports. Bi-directional analysis of OTDR traces, tested from both ends of the optical fiber, can also be performed.

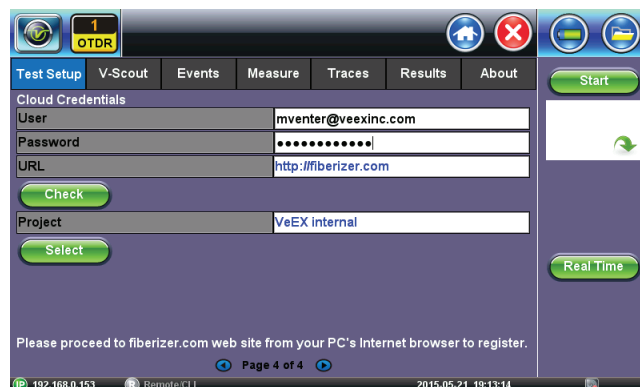


Fiberizer Cloud Connectivity

Pair the RXT-4100+ OTDR Multiservice tester via Bluetooth to a mobile Smartphone, Laptop or Tablet PC and efficiently upload OTDR test data directly to the Cloud server using any available wireless technology (3G, WiFi).

Total Compatibility

Fiberizer Cloud is compatible with both Windows and MacOS browsers, not limiting users to PC platforms only. OTDR trace files in Telcordia (Bellcore) GR-196 & SR-4731 *.sor formats are securely transferred via HTTPS connection, a fast reliable communication protocol commonly used in today's Internet applications. Another outstanding feature is compatibility with other OTDR vendor trace data formats, so users can reference or compare other OTDR traces and vice versa.



| OTDR | Multimode | Singlemode |
|--|--|---------------------------------------|
| Wavelength (±20 nm) | 850/1300 | 1310/1490/1550/1625/1650 ² |
| Laser safety class (21 CFR) | Class 1/1M | |
| Dynamic Range ³ (dB) | Refer to Ordering Guide | |
| Display Range (dB) | 0.1 to 54.165 | |
| Event dead zone ⁴ (m) | ≤1.5 | <1 |
| Attenuation dead zone ⁵ (m) | ≤5 | <4 typical |
| PON dead zone ⁶ (m) | N/A | 25 |
| Distance range ⁷ (km) | 0.1 to 80 | 0.1 to 400 |
| Distance Units | Meter, Kilometer, Feet, Kilofeet or Mile | |
| Readout resolution (m) | 0.01 | |
| Sampling resolution (m) | 0.03 to 8 | 0.03 to 16 |
| Sampling points | Up to 500,000 | |
| Distance uncertainty ⁸ (m) | ± (0.5 + resolution + 5x10 ⁻⁵ x L) | |
| Group index range | 1.2000 to 1.8000 in 0.0001 steps | |
| Launch conditions ⁹ | EF compliant | N/A |
| Linearity (dB/dB) | 0.03 | |
| Loss threshold (dB) | 0.0001 to 100.0000 in 0.0001 step | |
| Loss resolution (dB) | 0.01 | |
| Measurement time | Realtime, auto or user defined presets (5s, 15s, 30s, 1 min, 2 min, 3 min, 10 min) | |
| Measurement modes | Loss (2-PT or LSA, dB/km), Reflectance, ORL, Latency | |
| Reflectance accuracy (dB) | ±2.0 | |
| Reflectance display resolution (dB) | 0.1 | |
| Reflectance threshold (dB) | -0.10 to -99.9 dB in 0.1 dB step | |
| Typical real-time refresh (sec) | 0.2 | |
| Optical Interface | Fixed connector or optional universal interface with interchangeable adaptors | |

| Optical Test Options | Multimode | Singlemode |
|---|--|--------------------------------------|
| Visual Fault Locator (VFL) | Optional | |
| -Wavelength (nm) | 650 ± 10 nm | |
| -Output (mW) | 1 mW output into 50/125 μm MM fiber | |
| -Laser Safety Class | IEC 60825-1, Class II | |
| -Optical connector | Universal 2.5 mm interface; Optional 2.5 mm to 1.25 mm converter | |
| Optical Light Source ¹⁰ (LS) | Optional | |
| -Wavelengths (nm) | 850/1300 | 1310/1490/1550/1625/1650 |
| -Output power (dBm) | >-6 | >-4 |
| -Source mode | CW, 270, 1000, 2000 Hz | |
| -WaveID | Standard feature; Auto detection of OLS wavelength | |
| Optical Power Meter ¹¹ (OPM) | Optional | |
| -Calibrated wavelengths (nm) | 650, 850, 1300, 1310, 1490, 1550, 1625, 1650 | |
| -Power level range (dBm) | -60 to +3 (PM1) or -40 to +23 (PM2) | -65 to +10 (PM1) or -50 to +25 (PM2) |
| -Accuracy, % (dB) | ±8 (0.36 dB) | ±5 (0.22 dB) |
| -Linearity, % (dB) | ±6 (0.27 dB) | ±2.5 (0.11 dB) |
| Optical connectors adaptor | Universal FC, SC, ST, or LC | |

Notes:

1. Unless noted, all specifications are valid at 23°C ± 2°C (73.4°F ± 3.6°F) using FC/UPC connectors.
2. 1625/1650 nm SM live-port built-in filter highpass > isolation > 30 dB from 1270 nm to 1585 nm.
3. Typical dynamic range with longest pulse and three-minute averaging is the difference between extrapolated backscatter level at the start of test fiber to SNR = 1.
4. Typical, for reflection -45 to -55 dB in singlemode and -45 dB to -30 dB in multimode, using 3 ns pulse measured 1.5 dB down from either side of the peak of an unsaturated reflective event.
5. Typical 1310 nm attenuation deadzone < 4m; reflectance below -45 dB at 1310 nm and 0.5 dB above linear regression for dynamic range <45 dB; 4.5 dB for dynamic range 45 dB or higher (module dependent).
6. Non-reflective FUT, non-reflective splitter, 13-dB loss, 25-nsec pulse, typical value using 39 dB OTDR.
7. Distance Display auto-scale setting for FUT.
8. Does not include uncertainty due to fiber index.
9. Compliant with Encircled Flux TIA-526-14-B and IEC 61280-4-1 Ed. 2.0 using an external EF conditioner.

Optical Test Functions

| Optical Specifications | | | | Test Application | | | | | | |
|--|--------------------|-----------------------|---------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Multimode OTDR | | | | | | | | | | |
| Wavelength (nm) | Dynamic Range (dB) | Dead Zone (m) | | LAN | Access | FTTx PON | Live PON | CATV | Metro | Long Haul |
| | | Event | Loss | | | | | | | |
| 850/1300 | 26/27 | ≤ 1.5 | ≤ 5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 850/1300 | 27/77 | ≤ 1.5 | ≤ 5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| Singlemode OTDR | | | | | | | | | | |
| Wavelength (nm) | Dynamic Range (dB) | Dead Zone (m) | | LAN | Access | FTTx PON | Live PON | CATV | Metro | Long Haul |
| | | Event | Loss | | | | | | | |
| 1310/1550 | 39/36 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1310/1490/1550 | 39/35/36 | <1 | <4 | | | <input checked="" type="checkbox"/> | | | | |
| 1310/1550/1625 | 39/36/39 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 1310/1550//1625(F) | 39/36//39 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 1310/1550//1650(F) | 39/36//39 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 1310/1490/1550//1625(F) | 41/40/39//39 | <1 | <4 | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Long Range | | | | | | | | | | |
| 1310/1550 | 43/43 | <1 | <4 | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | |
| 1310/1490/1550 | 43/38/43 | <1 | <4 | | | <input checked="" type="checkbox"/> | | | | |
| 1310/1550/1625 | 43/43/39 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1310/1550//1625(F) | 43/43/39 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1310/1550//1650(F) | 43/43/39 | <1 | <4 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1310/1490/1550//1625(F) | 43/38/43/39 | <1 | <4 | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Ultra Long Range | | | | | | | | | | |
| 1310/1550 | 45/44 | <1 | <4.5 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1310/1550/1625 | 45/44/41 | <1 | <4.5 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1310/1550//1625(F) | 45/44/41 | <1 | <4.5 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Combo Multimode/Singlemode OTDR | | | | | | | | | | |
| Wavelength (nm) | Dynamic Range (dB) | Dead Zone (m) | | LAN | Access | FTTx PON | Live PON | CATV | Metro | Long Haul |
| | | Event | Loss | | | | | | | |
| 850//1310/1550 | 26//38/35 | ≤ 1.5 MM ≤ 1 SM | ≤ 5 MM ≤ 4 SM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | <input checked="" type="checkbox"/> | |

Notes (cont'd)

- 10. OLS shares the same test port as the OTDR.
- 11. MM specifications are improved if EF conditioner used in measurements.

| Hardware Options |
|--|
| Standard OPM (+10 dBm) |
| High Power OPM (+25 dBm) |
| PONT OPM (dual wavelengths: 1550 nm (+23 dBm)/1490 nm (+7 dBm) or 1610 nm/1490 nm) |
| Visual Fault Locator (650 nm) |
| Light Source (per OTDR laser fitted) |

RXT-1200 General Specifications

| | |
|---------------------------|---|
| Size | 290 x 140 x 66 mm (W x H x D) 11.40 x 5.50 x 2.60 in |
| Weight | Less than 3 kg (less than 6.6 lb) |
| Battery | Li-ion smart battery, 5200 mAh 10.8 VDC |
| Power Supply (AC Adaptor) | Input: 100-240 VAC, 50-60 Hz, Output: 15 VDC, 5.33 A |
| Operating Temperature | 0°C to 45°C (32°F to 113°F) |
| Storage Temperature | -20°C to 70°C (-4°F to 158°F) |
| Humidity | 5% to 95% non-condensing |
| Display | TFT 7" full color touch-screen display |
| Ruggedness | Survives 1m drop to concrete on all sides |
| Management Interfaces | USB, RJ45, 10/100-T Ethernet, Bluetooth (optional), Data Card/GPS (optional), WiFi (optional) |
| Languages | Multiple languages can be supported |
| System Memory | 128 Mbyte RAM, 16 Gbyte SD |



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