



## RXT-1200 Modular Test Platform

The new and completely redesigned RXT-1200™ addresses the challenges of communication service providers to increase efficiency and productivity. The flexible test platform lowers operational and capital expenditures associated with handling multiple technologies required to address today's Access, Business, Metro, Transport and Core services.

With flexible modularity, the new RXT-1200 defines the test set of the future. The RXT-1200's capability to combine multiple technologies into a rugged modular platform increases the productivity of technicians who are responsible for the installation, verification, and maintenance of today's complex services. RXT-1200's intuitive user interface boosts productivity by helping technicians and field engineers make their job easier, accelerating the learning curve, and reducing training requirements.

RXT-1200 represents the next-generation in integrated toolkits for field technicians, combining advanced multi-service testing capabilities, built in a single high-performance compact format.

Testing is one important part of the daily tasks and the RXT-1200 leads your workforce to go beyond testing and into getting the job completed quickly and accurately on the first dispatch.

### Platform Highlights

- Modern test platform, with a broad range of available test modules covering Access (copper and fiber), Metro, Transport and Core technologies
- Application-oriented GUI
- GUI familiarity across different test modules and other VeEX products reduces the learning curve
- View test results and create detailed reports by region, area, system, and technician
- Enables all jobs to be completed correctly the first time
- The optional RXT-1200 carrier module brings forward compatibility to Sunrise Telecom's popular MTT test modules, protecting your original investment and facilitating easy transition
- Multi-technology: DSL, Fiber Optics, DSn/PDH, SONET/SDH, OTN, Ethernet, Fibre Channel, CPRI/OBSAI,
- Expand test functions with a growing list of test modules
- Future-proof cost-effective platform
- Test set connectivity via Ethernet Management interface, WiFi, Bluetooth®, or Data Card for back office applications and workflow optimization
- User defined test profiles and thresholds
- Fast and efficient test result transfer to USB memory stick
- Ultra-high capacity field-exchangeable Li-ion battery pack extends testing time

## Advanced Modularity



## RXT-1200 Platform

### LCD Display

7 inch (175 mm) LCD with touch screen

LED backlight for durability, extended battery life, and crisp image

### Productivity Tools

Web Browser

File Manager

PDF Viewer

Packet Capture and decoding

## Fiber Optic Tools

### Digital Fiber Inspection Scope

Dirty connectors can damage or degrade the performance of expensive optical modules, or produce inaccurate results. Inspecting and cleaning patch cords and pluggable optics connectors before mating them is always recommended.

This option allows popular digital video microscope probe models\* to be connected directly to the RXT-1200 through a USB 2.0 port. Featuring live video feed on the RXT-1200 screen for visual analysis. It offers capture, compare (before and after), IEC 61300-3-3 Sect 5.4 Pass/Fail templates for SMF and MMF, save and export files to USB flash drives.

Visual Inspection\*

- Per IEC 61300-3-3
- Visual file selector
- SMF and MMF templates (Core, Cladding, Adhesive and Contact areas)
- Auto-scale reference dots
- Manual PASS/FAIL verdict
- Report Generation

*\*Not included. Check with factory for supported models*

### Optical Power Meter GUI\*\*

Supports USB OPM dongles

The optional OPM helps checking for proper output power from optical ports before safely making an optical connection or running a test

- Numerical and bar graph readings
- Hold function
- Display Units: dBm, mW and  $\mu$ W
- User definable Maximum and Minimum power limits, with color-coded Pass/Fail indication
- Optical Loss Meter function with zero reference calibration
- Loss limit settable in dB, dB/km and dB/mi

*\*\* For available Wavelength Range, Calibrated Wavelengths, Power Range, Accuracy and Connectors, refer to the USB dongle specs*

### Precision Time References

The RXT-1200 offers accurate and stable clock reference options to provide precise timing to all its test modules. The physical clock can be used as a reference for frequency and wander measurements and the UTC time of day (ToD) can be used for time-sensitive tests like one-way-delay measurements.

### QuickSwap™ Modularity

- Flexible Test Module design eliminates physical limitations and accommodates different module sizes allowing future growth of the RXT-1200 platform into more complex technologies and high-end applications
- Reduces time to switch technologies, identify and correct problems, eliminates repeat service visits, eliminates the need to carry multiple test sets
- No tools required

### Compatibility with Existing MTT Test Modules

- Adds backward compatibility with Sunrise Telecom's popular MTT test modules
- Assures easy transition and protects previous investment (requires RXT-1200 Carrier Module)



### Durable and Field Upgradeable Platform

- One compact, light weight, and rugged forward-looking design
- VeExpress™ ready (test module dependant)

**GPS Option**

The optional high-sensitivity GPS module (built-in) provides precise UTC synchronization to the RXT-1200, in the form of internal 1PPS clock synchronized to the coordinated second and time stamps.

Frequency: L1, 1575.42 MHz Channels: 20

Sensitivity

- Cold start: -144 dBm
- Tracking: -159 dBm

Clock Output: 1PPS (internal)

Accuracy

- Time: 50 ns RMS
- Position: 5m

Acquisition Time

- Cold start: 35s
- Hot start: 1s

Recommended Antenna

- Type: Active
- Gain: >15 dBi
- Noise: <1.5 dB
- Connector: SMA, 50 Ohms
- Power: 3.3 Vdc, 30 mA

Temperature range: 0 to 45°C

**Connectivity**

Covered connectors

2 USB 2.0 Host

1 USB 2.0 Client

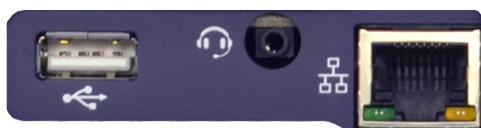
1 10/100Base-T Ethernet

Link and Activity LED indicators

Built-in wireless 802.11 b/g/n (optional)

WEP, WPA, WPA2 encryption

**Side Connector Panel**



**Top Connector Panel**



**Audio Features**

Built-in speaker

Built-in microphone

Headphone jack (2.5 mm)

Direct access to volume and brightness controls

**Platform Features & Options**

- Dedicated navigation buttons for non-touch screen operation (e.g. operating the test set with gloves on)
- Rugged design with integrated dual-shot rubber for protection, extra grip, and ergonomics
- Flexible hand and shoulder straps configurations
- Dual hand straps for right and left-handed operations
- Integrated adjustable rubberized kick stand
- Integrated stylus holder

**Network Troubleshooting Tools**

**IP Tools**

Provides basic Ethernet and Internet connectivity to the test set as well as connectivity troubleshooting tools to Ethernet test ports (10/100/1000BaseT, 100FX/1000BaseX, 10GE) and Management port (10/100BaseT)

IP: IPv4 (Static, DHCP) and IPv6 (Static, Auto) and PPPoE VLAN support Ping, Trace Route check HTTP

Web browsing internet connectivity check

**Net Wiz**

Network Discovery Tool

- Discovery: TX Frames, RX Frames, RX Errors, Advertised Speed, Advertised Duplex, Devices found, Networks found
- Devices: Total number, Routers, Servers, Hosts
- Device Details: Attribute, IP address, MAC address, Group Name, Machine Name, Ping OK
- Networks: IP Subnets, Hosts, Domains, Hosts Names

**Wi-Fi Wiz**

The Wi-Fi Wiz function with USB WiFi adapter for 802.11 a/b/g/n wireless in 2.4 GHz and 5 GHz bands makes troubleshooting Wi-Fi connectivity issues a simple task. Scan for available networks and view all access points detailed information along with SSID, signal strength and channel allocation. Connect to Access Points with WEP/WPA or WPA2 encryption and verify IP capabilities to ensure the wireless network is properly installed and configured. A full suite of IP testing features is supported (ping, trace, web browser, etc.).

Requires compatible USB WiFi adapter for a/b/g/n networks in 2.4 GHz and 5 GHz bands

Access Points scan with signal level and link quality measurement WEP/WPA1/WPA2 encryption

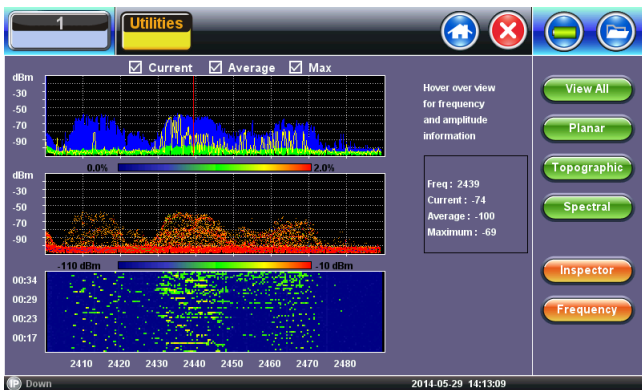
IP Connectivity test (Ping, trace route, ARPWiz, Web browser)

Provides Wi-Fi LAN access to the test set (e.g. VeExpress, R-Server, Remote Control, ReVeal)



**WiFi Spectrum Analyzer\***

The RXT-1200 offers a powerful portable spectrum analyzer on a USB dongle that displays all RF activity in the WiFi bands. With dual 2.4 GHz and 5 GHz bands support, the analyzer covers all 802.11a/b/g/n networks and is the ideal tool for enterprise environments with a mix of wireless technologies.



With multiple graphical format displays it helps to visualize and locate RF signals in the spectrums as well as locate and eliminate interference sources (cordless phones, microwave ovens, Bluetooth devices ,etc.), discover and remedy competing access points.

Supports 802.11 a/b/g/n

Frequency Range: 2.400 to 2.495 GHz and 5.150 to 5.850 GHz

Amplitude Range: -100 to -6.5 dBm

Antenna: RP-SMA

Planar, topographic, spectral view

*\*Requires Wi-Fi Spectrum Analyzer USB dongle*

**Bluetooth Option\***

Supports compatible USB Bluetooth™ dongle for file transfers to PC and mobile devices and to provide IP connectivity

*\* Requires compatible Bluetooth USB dongle*

**Remote Control Option**

Remote control via VNC client, web browser

Scripting via SCPI commands

Connectivity: 10/100Base-T, Wi-Fi 802.11 a/b/g/n\*

*\*Not included*

**File Manager**

Profiles: Save and recall test profiles Saves results to internal SD card View, Rename, Delete and Lock profile and result files Filter and sort by Name, Test Mode, Test Type, Port, Date and Result/ Profile Report generation: Test results generation in PDF format Export test results and profiles via USB memory, Bluetooth, web browser, Data Card or ReVeal RXT-1200 companion PC software File Backup and Retrieve to/from USB Screen capture: Screen shots in .bmp format

**General**

Size	260 x 180 x 65 mm (W x H x D) 10.2 x 7.1 x 2.6 in
Weight	1.74 kg (3.85 lb) with high-capacity battery
Battery	Li-ion smart battery 7500 mAh @ 11.1 VDC (83Wh) Field replaceable
Power Supply (AC Adaptor)	Input: 100-240 VAC, 50-60 Hz Output: 15 VDC, 5.33 A
Vehicle Accessory Charger*	Input: 12-24 VDC Output: 15 VDC, 4.80 A
Module Sizes	208 x 158 x 31 mm (W x H x D) 8.2 x 6.2 x 1.2 in
Module Weight	Refer to individual module's specification sheet for details
Operating Temperature	0°C to 50°C (32°F to 104°F) Refer to individual module's specification sheet for system wide operation range
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	5% to 90% non-condensing

*\*Optional*



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