

RXT-6200

100G Universal Module

VeEX® RXT is the industry's most flexible, compact, and future-proof handheld test solution for core, metro and access. The RXT-6200 module adds Ethernet, 5G/4G Mobile Backhaul and Fronthaul, Storage Area Networks, OTN, SDH/SONET, PDH/T-Carrier links and services testing, from 1.5/2 Mbps up to 100 Gbps.



HIGHLIGHTS

The RXT-6200 is the most complete and flexible portable 100G test set in the market. Equipped with most common transceiver form-factor ports and optional legacy test interfaces, this module is a perfect complement to the RXT Platform, extending its testing range to 100 Gbps and offering up to two simultaneous 100GE tests. Installation, commissioning, monitoring and maintenance tasks are simplified thanks to a combination of intuitive features and powerful test functions. Novice users benefit from the easy-to-use GUI, while experienced users will appreciate an array of advanced features such as OTL/PCS, CAUI-4/XLAUI Lane BERT, overhead monitor/control, Tandem Connection Monitoring, Service Disruption,

on, Protocol Capture/Decode, BERT, Throughput test, and much more.

General

- Independent Dual-Port testing, up to 2x 112G, including AOC/ DAC cable check
- CFP4 and QSFP28 interfaces for 100GE, OTU4 and 50GE applications
- Breakout-out (fan-out) test for 4x25GE and 4x10GE
- QSFP+ for 40GE, OTU3
- SFP28 interface for 25GE, 32/16G FC, 24G CPRI 10 and 25G eCPRI Layer 4 with RS-FEC
- SFP+ for 100Base-FX, 1000Base-X, 10GBase-X, 10/5/2.5GBSATE-T, OTU2/2e/1e/1, STM-64/16/4/1/0, OC192/48/12/3/1, Fibre Channel 16/10/8/4/2/1G, CPRI up to 12G, and 10G eCPRI
- RJ45 for 10/100/1000Base-T applications

Ethernet Testing

- Optical 100 Mbps to 100 Gbps Ethernet testing, including 25GE and 50GE
- Electrical 10 Mbps to 10 Gbps Ethernet testing
- Dual-port testing capabilities
- Optical Lane BERT and CAUI-4/XLAUI Lane BERT
- PCS Layer Testing with Skew generation/monitoring
- Multi-stream testing up to 32 independent streams
- IEEE 802.3ah, ITU-T Y.1731, IEEE 802.1ag, and MPLS-TP OAM
- RS-FEC measurements
- Q in Q (VLAN stacking), MPLS, MPLS-TP, PBB, EoE
- MAC flooding
- RFC2544 and V-SAM (Y.1564) testing
- IPv4 and IPv6 traffic generation
- BERT and Throughput testing at Layer 2 and Layer 3
- Smart Loopback mode for Layer 2 and Layer 3
- One-Way-Delay latency measurement (GNSS assisted)
- Line rate packet capture with Wireshark™ decode
- Error and Alarm Injection

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CPRI Testing

- Common Public Radio Interface standard (CPRI) link performance verification
- Supports all Rate Options up to CPRI 10 (from 614.4 Mbps to 24.33 Gbps) per CPRI Specification v7.0
- Layer 2 Framed BER testing with PRBS stress patterns
- REC/BBU (master) and RE/RRH (slave) emulation
- Latency measurements Dual-port operation and bi-directional monitoring mode
- CPRI Hyperframe Capture

eCPRI Testing

- 25G/10G eCPRI
- Dual-port testing capabilities
- RS-FEC support
- Multi-stream testing up to 32 independent streams
- Throughput testing at Layer 2 and Layer 4
- IPv4 and IPv6 support
- Q in Q (VLAN stacking) and MPLS support
- High accuracy One-Way-Delay latency measurement (GPS assisted)
- Line rate packet capture

Fibre Channel

- Storage Area Networks (SAN) testing for 1G, 2G, 4G, 8G, 10G, 16G and 32G interfaces
- BERT and Throughput test
- RFC2544: Throughput, latency, frame loss, back to back tests Layer 1 and layer 2 loopbacks

OTN Testing

- OTN testing for OTU1, OTU2, OTU1e, OTU2e, OTU3 and OTU4
- Complete multi-stage Mapping/Multiplexing
- Advanced multi-step Map/Mux with SDH/SONET/PDH/DSn test payloads*
- Ethernet over OTN (EoOTN)
- ODUflex into ODU2, ODU3 and ODU4 with Bulk payload
- Service Disruption Time (SDT)
- Tandem Connection Monitoring
- Overhead monitoring and generation
- Terminate, Payload Through and Line Through test modes
- Per-lane optical power and frequency measurements
- External clock reference interface
- Histogram Analysis

SDH/SONET Testing

- Available as Line Rate or mapped into OTN payloads
- STM-0 to STM-64 and STS-1/OC-1 to OC-192 and STL256.4
- Advanced multi-step Map/Mux with PDH/DSn test payloads
- Test payload multiplexing down to VC11/VT1.5 and internally generated PDH/DSn tributaries

PDH/T-Carrier Testing

- The test set provides optional legacy SDH/SONET/PDH and DSn test interface capabilities and sub-rates from 155M (STS3/STM1), 55M, (STS1/STM0), 140 Mbps (E4), 34 Mbps (E3), 2 Mbps, 45Mbps (DS3), 1.5 Mbps (DS1), and G.703 64k codirectional.