

VeEX® offers comprehensive Ethernet and Transport test solutions for Business Services, Access, Metro, Core, Transport, Data Center Interconnect and Utility networks. Versatile test platforms combine a broad range of technologies to ensure optimal performance and reliability across the entire network lifecycle. From deployment and turn-up to ongoing maintenance and troubleshooting, VeEX empowers service providers to confidently deliver high-quality, high-speed connectivity.

Lab-to-Field Test Solutions

RXT® Modern Modular Test Platform



As the industry's most flexible, compact, and future-proof hand-held test solution, the RXT® family of modules offer a full range of link and service testing capabilities, from Core to Access, from Lab-to-Field and from 64k to 800G, with a complete range of communication technologies, including eCPRI, CPRI/OBSAI, OTN, SDH/SONET, PDH/DSn, Carrier Ethernet, SyncE, 1588v2 PTP, Fiber Channel, OTDR, OSA. All supported by a single rugged hand-held test platform.

RXT-6802 / RXT-6811 Advanced Dual 800G Multi-service Test Modules

- Portable Dual 800GE to 1GE Test Solutions
- Native 800G OSFP and/or QSFP-DD800, 400G QSFP-DD, QSFP112/56/28/+, SFP-DD, SFP56/28/+
- Supports CMIS 5.3 Normalized Application Descriptor (NAD)
- 800GE IEEE and ETC
- 800GE, 2x400GE, 4x200GE, 2x200GE, Nx100GE
- 800G and 400G ZR+
- Transceiver and AOC/AEC/DAC Testing
- FEC and BER Signal Integrity Testing



RXT-6402 / RXT-6402 Lite Advanced Dual 400G Multi-service Test Modules

- 2x400GE concurrent testing capabilities
- Dual ports for all pluggable optics form factors, required for AOC/DAC, fan-out and wrap-around tests (from 10M to 400GE)
- Up to four concurrent and independent tests
- Native QSFP-DD, QSFP56, SFP-DD, and SFP56 PAM4 hardware (no adapters required)
- Supports testing for all common form factors, including QSFP-DD, QSFP56, SFP-DD, and SFP56 transceivers, DACs, AOCs, network equipment and 400GE links
- Supports 400GE interfaces, including 400GBASE-SR8, FR8, LR8, DR4, FR4, LR4, CR8, CR4 and 400ZR/ZR+
- Complete industry-standard Ethernet link test feature set for Layers 2, 3 and 4



Supported Test Interface (Ports)	RXT-6802	RXT-6811	RXT-6402	RXT-6402 Lite
OSFP		1		
QSFP-DD800	2	1		
QSFP-DD	2	1	2	2
QSFP112/56/28	2	1	2	2
QSFP+	2	2	2	2
SFP-DD/56/28	2	2	2	2
SFP+/SFP	2		2	
RJ45	2		2	
RJ48 + 3xSMA	1		1	

RXT-6200 100G Universal Test Module

- CFP4 and QSFP28 interfaces for 100GE, OTU4 and 50GE applications
- Independent Dual-Port testing, up to 2x 112G
- Supports IEEE 802.3bj Clause 91 RS-FEC
- QSFP+ for 40GE, OTU3
- SFP28 for 25GE, 32G FC, CPRI up to 24.330G (CPRI 10), 25G eCPRI
- SFP+ for 10GE/1GE/100M, OTU2/2e/1e/1, STM-64/16/4/1/0, OC192/48/12/3/1, and Fiber Channel 16/10/8/4/2/1G and CPRI up to 12.165G (CPRI 9) and 10G eCPRI
- Electrical interfaces for legacy 10/100/1000M, SDH/SONET and PDH/DSn testing



800/400/100G ETHERNET

MTX642 Dual 400G Portable Test Set

- True 2x400GE concurrent testing
- Dual ports for all common pluggable optics form factors (1G to 400GE)
- Native PAM4 hardware - no adapters required
- Full compatibility with QSFP-DD, QSFP56, SFP-DD, and SFP56 transceivers, DACs, AOCs, network equipment and 400GE links
- Broad range of supported 400GE interfaces: 400GBASE-SR8, FR8, LR8, DR4, FR4, LR4, CR8, CR4 and 400ZR/ZR+
- RJ45 interfaces supporting 10/100/1000BASE-T and 2.5G/5G/10GBASE
- Fiber Channel up to 32G and OTU4 support



MTX640 Dual 100G/Single 400G Portable Test Set

- True 2x100GE concurrent testing
- 400G Ready via software option
- Native PAM4 hardware - no adapters required
- Full compatibility with QSFP-DD, QSFP56, SFP-DD, and SFP56 transceivers, DACs, AOCs, network equipment and 400GE links
- Broad range of supported 100GE and 400GE interfaces: 100GELR4/LR1/FR1/DR1, 400GBASE-SR8, FR8, LR8, DR4, FR4, LR4, CR8, CR4 and 400ZR/ZR+
- RJ45 interfaces supporting 10/100/1000BASE-T and 2.5G/5G/10GBASE



MTX150x/MTX150x Lite Ethernet/Multi-Gig Internet Test Set

- V-TEST Throughput Test supports VeEX Mode and Speedtest Powered™ Mode based on Ookla® technology
- V-PERF, support of RFC6349
- SFP+ test interface for 100/1000BASE-X and 10GBASE-R
- Built-in RJ45 test interface with PHY for 10/100/1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T (no adapters required)
- NoApp® (US Patent 12,190,199) QR code capability for faster result transfer
- Test Scheduling option via R-Server Profiles to ensure a stable and reliable network experience



MTX150x Advanced Features Only

- Dual SFP+ and Dual RJ45 test ports
- Dual-port testing capabilities
- Throughput, BERT, Loopback
- RFC2544 Throughput, latency, frame loss and back-to-back tests
- 2.5G/5G/10GBASE-T via native RJ-45 port



MTX90 Multi-Gig Internet Services & Ethernet Speed Test Set

- Complete Layer 4+ test suite: V-TEST (Ookla Speedtest), V-PERF (RFC6349)
- Wi-Fi (802.11a/b/g/n/ac/ax) 2.4 GHz, 5 GHz and 6 GHz scan, coverage verification and speed test.
- Built-in RJ45 test interface with PHY for 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T (no adapters required)
- SFP+ test interface for 100/1000BASE-X and 10GBASE-R
- NoApp QR code capability for faster result transfer



MTX150 Multi-Service Installation & Maintenance Test Set

- Ethernet, Fiber Channel, SDH/SONET, PDH/DSn, Datcom and G.703 64K Codirectional Testing
- SFP+ Optical Interface for 10GBASE-X, 100/1000BASE-X, SyncE, 1/2/4GFC, STM-0 to 64, OC-1 to 192, IEEE C37.94
- RJ45 for 10/100/1000BASE-T
- Throughput, BERT, IPv4/IPv6, Loopbacks, NetWiz, Ping, trace route, Scan, L2CP Transparency, Errors, Alarms, Events, Delay, Test Profile Auto Scripting/Sequencer
- RFC2544 Throughput, latency, frame loss and back to back tests
- Layer 4+ test suite: V-TEST (speed test), V-FTP, RFC6349 V-PERF upload & download tests



TX300s Series Multi-Service Test Set with VeExpress

The TX300s, with VeExpress license management, is a full-featured, field-configurable portable test solution for Carrier Ethernet, Backhaul, Mobile and Transport testing. This flexible and multi-tasking platform supports Carrier Ethernet, OTN, SDH, SONET, PDH, DSn networks, and offers extensive support for Mobile Backhaul technologies with SyncE, eCPRI and CPRI/OBSAI testing.



- Up to four (4) independent test ports
- OTU4, OTU3, 100GE, 50GE, 40GE, 25GE options
- OTU1/2/1e/2e, ODU0, ODUflex
- SONET/SDH up to OC-192/STM-64
- DSn/PDH: DS1, DS3, E1, E3, E4
- G.703 64k Codir & C37.94

- CPRI: 614.4 Mbps to 12.164 Gbps (up to 24.330 Gbps with TX300s-100GX)
- OBSAI: 768 Mbps to 6.144 Gbps
- Ethernet: 10/100/100BASE-T, 2.5G/5G/10GBASE-T (via copper SFP+)
- Fiber Channel: 1/2/4/8/10/16G (up to 32G with TX300s-100GX)
- VeSion R-Server, VeExpress, EZ-Remote, Web Remote, VNC, SCPI
- LACP Testing 1G & 10G
- V-Perf (RFC6349) 1G, 10G, 25G, & 100G



TX300s-OTDR Hardware Option



TX300s-100Gx Hardware Option



TX340s Dual Test Port Hardware Option

Multi-Port Test Solutions MPA® Series

With the rapid expansion of high-speed, high-availability networks, test and verification solutions must evolve just as quickly. Not all 800G, 400G, and 100G T&M applications are alike - core, data center and lab environments each demand the right mix of scalability, power, and automation.

The Multi-Port Analyzer (MPA) series are advanced packet optical transport traffic generation and analysis platforms specifically designed for the testing challenges of NEMs R&D, SVT, production and interoperability lab environments.

MPA Series Platform Highlights

- 800G to 10Mbps simultaneous and independent Multi-Port & Multi-User testing
- Modular and field-maintainable platforms designed for 24x7 operation
- Modern & intuitive HTML5 Web UI remote
- Test automation including Python API and SCPI CLI
- Pay-As-You-Go platform allowing test modules to easily be added on site

MPA Series Test Applications

- Line-side and client-side interfaces
- ZR, OpenZR+ and OpenROADM pluggable DCO; LPO, LRO, AOC & DAC
- High powered DCO plug & AOC/DAC interop and benchmarking
- Ethernet/IP, OTN, SDH/SONET and Fiber Channel interfaces
- FEC/PCS, MAC/Ethernet/IP throughput, RFC2544, & SDT
- Multi-lane unframed BERT, PRBSQ, PAM4 and NRZ pattern testing

MPA-HD & MPA-ONE Scalable High Density Test Solutions - Up to 8x 800G or 16x 400/100G Test Ports per Chassis

MPA-HD Chassis Highlights

- 3U x 19" rack mounted or benchtop chassis
- Supports up to 4 pluggable test modules



MPA-ONE Chassis Highlights

- 1U x 14" rack mounted or bench top chassis
- Supports 1 pluggable test module



MPM-HD-802 Dual Port 800G Test Module with QSFP-DD800 Ports

- 800GE, 400GE, 200GE, 100GE & Breakout applications
- OTN and FlexO applications
- 106G/53G PAM4 and 28G NRZ host lane support

MPM-HD-404 Quad Port 400G Test Module with QSFP-DD & SFP-DD Ports

- 400GE, 200GE, 100GE, 50GE, 40GE, 25GE, 10/1GE & Breakout applications
- 53G PAM4 and 28/10G NRZ host lane support

MPM-HD-822 Dual Port 800G Test Module with OSFP800 Ports

- 800GE, 400GE & Breakout applications
- OTN and FlexO applications
- 106G/53G PAM4 and 28G NRZ host lane support

MPM-HD-402 Dual Port 400G Test Module with QSFP-DD & SFP-DD Ports

- 400GE, 200GE, 100GE, 50GE, 40GE, 25GE, 10/1GE & Breakout applications
- 53G PAM4 and 28/10G NRZ host lane support

MPM-HD-832 Dual Port 800G Test module with OSFP800-RHS Ports

- 800GE, 400GE & Breakout applications
- OTN and FlexO applications
- 106G/53G PAM4 and 28G NRZ host lane support

MPM-HD-104 Quad Port 100G Test Module with QSFP-DD & SFP-DD Ports

- 100GE, 50GE, 40GE, 25GE, 10/1GE & Breakout applications
- 400/200GE FEC/Throughput
- 53G PAM4 and 28/10G NRZ host lane support

MPM-HD-208 Eight-Port 200G Test Module with SFP-DD112 Ports

- 100GE, 50GE, 25GE, MACsec & Breakout applications
- 106G/53G PAM4 and 28G NRZ host lane support

MPM-HD-102 Dual Port 100G Test Module with QSFP-DD & SFP-DD Ports

- 100GE, 50GE, 40GE, 25GE, 10/1GE & Breakout applications
- 400/200GE FEC/Throughput
- 53G PAM4 and 28/10G NRZ host lane support

800/400/100G ETHERNET

MPA® Multi-Port Analyzer Multi-Port 400G to 10 Mbps Testing

The MPA Multi-Port Analyzer is an advanced packet optical transport traffic generation and analysis platform specifically designed for the demands of R&D, SVT, and manufacturing testing environments. The MPA provides simultaneous independent multi-port testing from 1G to 400G for Ethernet/IP, OTN & SDH/SONET and Fiber Channel.

Platform Highlights

- Compact 1U x 19" rack mounted or benchtop chassis
- Supports up to 6x pluggable test modules



MPM-400AR™ Dual Port 400GE Test Module with QSFP-DD, QSFP56 & SFP56 Ports

- 2x QSFP-DD, 2x QSFP56 & 2x SFP56 ports
- Dual port 400GE, 200GE, 4x100GE, 100GE, 50GE, 4x25GE, 25GE, 4x10GE, 10GE & OTU4; Single Port 8x50GE
- FlexE 400GE, 200GE, 100GE QSFP PHY testing with client up to 400G
- 400/200/100G FlexO options



MPM-400DCO™ Dual Port 400G Test Module with CFP2-DCO and QSFP-DD Test Ports

- 400G CFP2-DCO and QSFP-DD dual port testing
- 400GE, 200GE, 4x100GE, 100GE, 8x50GE, 50GE, 4x25GE, 4x10GE & OTU4
- FlexE 400GE, 200GE, 100GE QSFP PHY testing with client up to 400G
- 400/200/100G FlexO options



MPM-600G 6 Port 100G Test Module with QSFP28 Ports

- 100GE, 100GE KR RS-FEC & 40GE
- OTUCn (n=1-6), OTU4, OTU3, OTU3e1, & OTU3e2
- FlexE testing using 1 to 4 100GE QSFP28 PHYs with client rate to 400G; shim/calendar overhead, and MAC layer control/testing



MPM-100AR 100GE Test Module with QSFP28 and Dual SFP28 Ports

- 100GE, 100GE KR RS-FEC & 40GE
- Dual port 10/25/25G RS-FEC
- OTUCn (n=1-6), OTU4, OTU3, OTU3e1, & OTU3e2
- Dual port OTU2, OTU2e & OTU1e
- STL256.4 STM256/OC768
- Dual Port 10/16/32G Fiber Channel



MPM-10G Dual Port 10G Test Module with SFP+ Ports

- 10GE, 1GE, 100M, 2500BASE-X, 10M/100M/1000M/10GBASE-T Ethernet
- OTU1, OTU2, OTU1e, OTU2e, OTU1f, OTU2f; SDH STM0/1/4/16/64 & SONET OC1/3/12/48/192
- Fiber Channel 1/2/4/8/10G



Supported Test Interface (Ports)	MPM-HD-832	MPM-HD-822	MPM-HD-802	MPM-HD-208	MPM-HD-404	MPM-HD-402	MPM-HD-104	MPM-HD-102
OSFP800-RHS	2							
OSFP800-IHS		2						
QSFP-DD800			2					
QSFP-DD					4	2	4	2
SFP-DD112				8				
SFP-DD					4	2	4	2

Supported Test Interface (Ports)	MPM-400DCO	MPM-400AR	MPM-600G	MPM-100AR	MPM-10G
CFP2-DCO	1				
QSFP-DD	1	2			
QSFP-56		2			
QSFP28			6	1	
SFP56		2			
SFP28				2	
SFP+					2

