MPA® Multi-Protocol Analyzer
Modular Test Platform

The MPA® Multi-Protocol 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 Fibre Channel.

Advanced and flexible FPGA based test modules provide future proof hardware support for emerging standards. Supports license based test options.

- The following test module options are available:
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- MPM-400DCO Test Module Option (1x CFP2-DCO, 1xQSFP-DD)
- MPM-400AR Test Module Option (2x QSFP-DD, 2x QSFP56, 2x SFP56)
- MPM-400G Test Module Option (1x CFP8)
- MPM-600G Test Module Option (6x QSFP28)
- MPM-100AR Test Module Option (1x QSFP28, 2x SFP28)
- MPM-100G Test Module Option (1x QSFP28, 1x CFP4)
- MPM-10G Test Module Option (2x SFP+)

PLATFORM HIGHLIGHTS

- Supports up to 6 pluggable test modules which can be configured independently and operated simultaneously
- Simultaneous and independent Multi-Port, Multi-Protocol, & Multi-User testing
- Compact 1U x 19" rack mounted chassis with low power and small size footprint for dense application environments
- Completely modular and fully customer-maintainable platform designed for 24x7 operation
- Intuitive remote GUI with simple, consistent setup and workflow across all test modules
- Comprehensive test automation and CLI scripting, supports both native Python API and SCPI CLI
- Pay-As-You-Go platform allowing test modules to be easily added on-site and new capabilities to be downloaded
- Significantly reduces the amount of testing equipment, required footprint, and test time

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KEY TEST APPLICATIONS

Ethernet/IP Traffic Generation & Analysis
- Full line rate layer 1-4 multi-stream, throughput, frame loss, latency, packet jitter, and BERT characterization
- PCS & RS-FEC layer testing
- RFC 2544 and Y.1564 compliance testing
- Service disruption time (SDT) measurement

OTN Traffic Generation & Analysis
- OTL and FEC layer testing
- Multi-Channel OTN testing with support for parallel testing of up to 80xODU0s
- Advanced multi-stage OTN multiplexing with Ethernet, GFP, Fibre Channel, SDH/SONET, & PRBS clients
- Complete overhead/trace generation and analysis with byte capture
- Thru mode with error & alarm stimulus testing
- Service disruption time and delay measurements

SONET/SDH Traffic Generation & Analysis
- Multi-Channel SONET/SDH testing with support for parallel testing up to 192 channels
- PRBS and GFP/Ethernet mapping clients
- Complete overhead/trace generation and analysis with byte capture
- Thru mode with error & alarm stimulus testing
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- Service disruption time and delay measurements

Fibre Channel Traffic Generation & Analysis
- Full line rate throughput, frame loss, latency and BERT characterization
- FEC layer testing
- Fibre Channel switch login and performance verification with FLOGI/PLOGI
- Buffer-to-buffer credit and flow control analysis
- Service disruption time measurement

Transceiver & Physical Layer Testing
- QSFP-DD, QSFP56, QSFP28, QSFP+, CFP8, CFP4, SFP56, SFP28, SFP+, SFP module verification
- Unframed BERT for signal integrity testing
- Transceiver and MDIO/I2C testing
- Transceiver module health check feature
- High speed lane clock stressing/analysis and optical power level verification

* Digital Lightwave® (DLI) was acquired by VeEX in 2016 and it now operates as a wholly-owned division of VeEX Inc.