MPM-100AR

100G Multi-Protocol Module

The MPM-100AR Multi-Protocol Module is specifically designed to meet the test and measurement challenges of developers and early adopters of next generation Ethernet/IP, Fibre Channel, OTN & SONET/SDH ASICs, optics, transport/switching modules, and service delivery.

MODULE HIGHLIGHTS

- Multi-rate testing up to 100G
- Native QSFP28 test port
- Native dual independent SFP28/SFP+ test ports
- Advanced and flexible FPGA based test module provides future proof hardware support for emerging standards and test applications
- The advanced pluggable hardware module supports easy field installation in deployed MPA® chassis with existing test modules

APPLICATIONS

Ethernet/IP Traffic Generation & Analysis

- 100GE, 40GE, 25GE & 10GE
- Full line rate layer 1-3 multi-stream, throughput, frame loss, latency, packet jitter, and BERT characterization
- PCS & RS-FEC layer testing
- RFC 2544, Y.1564 compliance testing
- Service disruption time SDT measurement

Fibre Channel Generation and Analysis

- 32G, 16G, 10G
- Full line rate throughput, frame loss, latency and BERT characterization
- FEC layer testing
- Fibre Channel switch performance verification with FLOGI/PLOGI
- Buffer-to-buffer credit and flow control analysis
- Service disruption time measurement

OTN & SDH/SONET Traffic Generation & Analysis

- OTU4, OTU3, OTU3e2, OTU3e1, OTU2, OTU2e, OTU1e & STL256.4
- OTL, FEC, OTN, & SDH/SONET layer testing
- Multi-Channel OTN testing with support for parallel testing of up to 80 x ODU0s
- 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

Optical Layer Analysis

- QSFP28, QSFP+, SFP28, SFP+, SFP module verification
- Unframed BERT for signal integrity testing
- Optical transceiver I2C testing
- Optical transceiver module health check feature
- High speed lane clock stressing/analysis and optical power level verification