▶ # MTTplus-340

erat

Advanced Multi-Service Test Module

The MTTplus-340 test module offers advanced test solutions for Access, Metro and Carrier Ethernet, supporting OTN, SONET/SDH, PDH/DSn, Fibre Channel, CPRI, C37.94 and Synchronization. This compact and flexible test platform helps service providers increase efficiency and productivity. It lowers OpEx and CapEx associated with handling multiple technologies required to address today's Access, Business, Carrier Ethernet, Transport and Core services.

MODULE HIGHLIGHTS

Ethernet
- RFC 2544 Throughput, latency, frame loss and back to back tests
- V-SAM test suite compliant with ITU-T Y.1564 standard
- IEEE 802.3ah, ITU-T Y.1731, IEEE 802.1ag, MPLS-TP OAM support
- Q in Q (VLAN stacking), MPLS, MPLS-TP, PBB support
- RFC 6349 V-PERF TCP/UDP test suite
- Layer 2 Control Protocol Transparency test
- Advanced tests: IP Sec, LACP, L2CP, NAT Traversal
- In-service monitoring with packet capture and on-screen protocol decode
- One way latency with optional built-in GNSS receiver
- Fully integrated solution for synchronized packet networks
- Supports SyncE/ITU-T G.8261 standard
- Master Clock and Slave clock emulation
- Wander measurement and MTIE/TDEV analysis
- SyncE ESMC SSM generation, monitoring, and decoding
- VoIP and IPTV testing

Fibre Channel
- Storage Area Networks (SAN) testing up to 16G FC
- BERT, Throughput, and RFC 2544 test
- RFC 2544: Throughput, latency, frame loss, back to back tests
- In-service monitor, capture and protocol decode
- Layer 1 and layer 2 loopbacks

CPRI Testing
- Common Public Radio Interface standard (CPRI) Layer 2 tests (REC/BBU and RE/RRH emulation)
- BER testing with PRBS stress patterns
- Latency measurements

OTN/SDH/SONET/PDH/DSn
- Advanced flexible OTN, SDH/SONET, PDH/DSn test payload map/mux, including EoOTN (ODU2e, ODU0 and ODUflex)
- Overhead Monitoring and Byte decoding
- Protection Switching and Service Disruption Time (SDT)
- Round Trip Delay on all interfaces and payload mappings
- Tandem Connection Monitoring
- Jitter and Wander (E1, E3, DS1, DS3, STM-1o, OC-3)
- Pulse Mask Analysis at E1, E3 and DS1, DS3 rates

IEEE C37.94™
- Power/Utilities Teleprotection Network testing
- BERT, SDT/APS, RTC and transparency tests
- Passive bidirectional Monitoring and intrusive Pass-Through modes
- GNSS-assisted One-Way-Delay measurements
- Jitter and Wander Measurements