

TX340s Module

All-in-one Optical and Service Test Platform

Advanced Multi-Service Test Option

The TX340s hardware option for the TX300s portable test platform offers advanced test solutions for OTN, SONET/SDH, PDH/DSn, Carrier Ethernet, Fibre Channel and CPRI/OBSAI. This factory-installed hardware option allows flexibility to fit any application, for example, the addition of a second TX340s, 100G or OTDR module, to be installed concurrently in the same test platform.



MODULE HIGHLIGHTS

- Flexible, all-in-one multi-service test solution, from 64 kbps to 16 Gbps (can be combined with 100G and OTDR modules)
- Transport, Core, Metro, SAN, Backhaul and Fronthaul applications
- Supports up to four test port groups with independent and simultaneous measurements
- Test cards summary provides an overview of up to four running tests, as well as test application switching and management functions

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
- 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

Fibre Channel

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

CPRI Testing

- Common Public Radio Interface standard (CPRI): Unframed, Layer 1 Framed and Layer 2 tests (REC/BBU and RE/RRH emulation)
- Open Base Station Architecture Initiative (OBSAI): Unframed tests
- BER testing with PRBS stress patterns
- Latency measurements

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Ethernet

- RFC2544 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
- RFC6349 V-PERF TCP test suite
- Layer 2 Control Protocol Transparency test
- In-service monitoring with frames capture and on-screen protocol decode
- One way latency with optional built-in GNSS receiver
- Fully integrated solution for synchronized packet networks
- Supports IEEE 1588v2/PTP and SyncE/ITU-T G.8261 standards
- Master Clock and Slave clock emulation
- IEEE 1588v2/PTP protocol monitor & decode, and PDV analysis
- Wander measurement and MTIE/TDEV analysis
- ESMC SSM generation, monitoring, and decoding
- VoIP and IPTV testing

IEEE C37.94™

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

KEY FEATURES

- Flexible wavelength and bit rate options using industry standard pluggable optics
- OTN: OTU2, OTU1, OTU2e, OTU1e
- SDH: STM-64/16/4/1/0
- SONET: OC-192/48/12/3/1, STS-3/1
- PDH/DSn: DS1, DS3, E1, E2, E3, E4
- EoOTN Testing with OTU1e, OTU2e, ODU0 and ODUFlex with bulk, and Ethernet payloads
- Coupled or independent Tx and Rx settings
- Tandem Connection Monitoring
- Service disruption testing (SDT) and APS
- Round trip delay on all interfaces and payload mappings
- Jitter/Wander Analysis (E1, E3, DS1, DS3 and STM-1o, OC-3)