VIAVI
OneAdvisor-1000
400G Portable Network Tester
Member of the T-BERD/MTS Product Family

The OneAdvisor-1000 delivers all the test capabilities technicians and engineers need to install and maintain high-capacity networks. Supporting emerging and legacy technologies, the OneAdvisor-1000 is ideal for metro/core, data center interconnect, and business services testing.
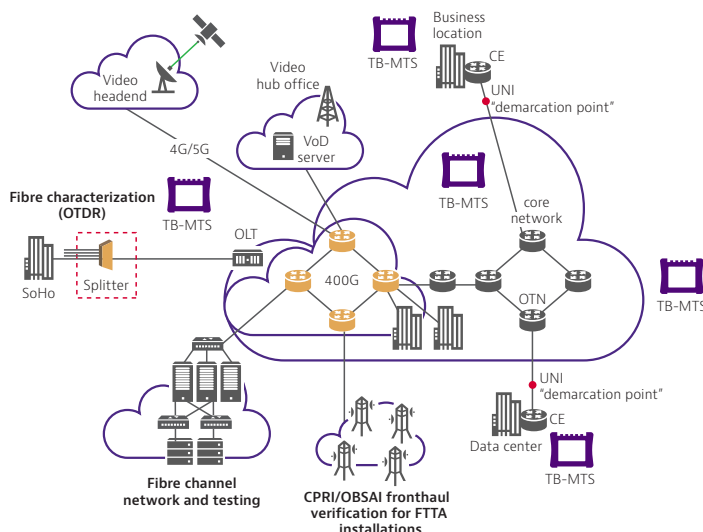
The industry's most comprehensive tool for 400Gbps testing provides multi-protocol coverage to address service activation, troubleshooting, and maintenance. The portable tester provides the latest technology with interfaces such as QSFP-DD and SFP-DD. The OneAdvisor-1000 provides rate integration to cover 400GE testing in addition to fiber optic testing using OTDRs. The supported combinations provide investment protection by covering future technology and the possibility to cover legacy protocols. With advanced tests like Optics Self-Test for QSFPx pluggables, RFC 2544/Y.1564, and OTN Check, technicians can test their networks faster and more accurately than ever before.

Benefits

- Optimized for central office use with a 10-inch multi-touch screen, scripted workflows, and clear pass/fail results

- PAM4 native support provided via connectors and interfaces also to test 400GE

- Simplifies multi-technology testing via modularity to provide an all-in-one solution

- Compatible with fiber optics test modules such as OTDR

Features

- Tests new technology including PAM4 and KP4 FEC at 400GE

- Comprehensive rate testing from 400GE down to DSx PDH (1.5M/2M) including all intermediate Ethernet rates

- Scripted workflows that drive test consistency across users; QuickCheck, RFC 2544, OTN Check, and Optics Self-Test.

- Pairs with the VIAVI 4100-Series OTDR and WDM Channel Checker modules with Smart Link Mapper

Comprehensive Tool

The full-featured OneAdvisor-1000 provides:

• Modular base unit with large 10-inch, multi-touch display

• Integrated WiFi, and Bluetooth to wirelessly transfer results. For secure environments, units are available without WiFi/BT

• Built-in GNSS/GPS for sky plot, One-Way Delay, and sync measurements

• SmartAccess Anywhere provides easy device access from an Android device, IOS or PC

• Cloud-base StrataSync™ for results collection, data management, and device tracking

Modularity and support of VIAVI Fiber Test Tools

Metro/longhaul, business services, and data center technicians can test virtually any interface in a network as well as qualifying fiber plants with one handheld instrument. The OneAdvisor-1000 pairs with:

• 400G module with PAM4 400GE support and hardware readiness for 200GE, NG 100GE, 50GE, and FlexE

• Full family of OTDR modules, with Smart Link Mapper which provides an icon-based map view for clear diagnostics of detected issues.

Ease of Use

- Fixed test interfaces eliminate loose, pluggable modules

- LEDs indicate plug-ins for tests

- Streamlinded user interface provides simple pass/fail, green/red results

- Battery support at all rates

- Expandable via interchangeable test modules

Troubleshooting with Optics Self-Test

Optics Self-Test is a workflow tool to identify and troubleshoot performance issues related to pluggable optics. It is especially well-suited to field environments where pluggable optics issues are difficult to isolate.

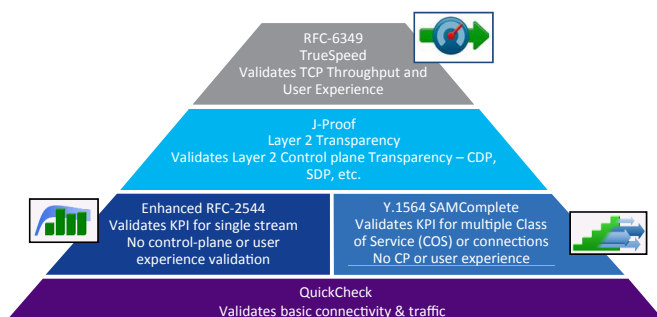## Time-Saving Ethernet Service Activation

Test more quickly and efficiently using automated tests:

- QuickCheck — a fast, automated test that validates end-to-end configurations; runs as a pre-check test before RFC 2544 or Y.1564 or as a stand-alone test

- Enhanced RFC 2544 — an automated turn-up test with built-in time efficiency for validating key performance indicators (KPIs), concurrently measuring throughput, frame delay, and frame delay variation in addition to frame loss and committed burst size (CBS)

- Y.1564 SAMComplete™ — An automated service verification test that speeds the verification of multiple classes of service (COS) or connections based on SLAs

400GE Testing

The 400G Module enables the tests specific to 400GE, including:

- KP4 FEC testing for correctable errors up to 15 symbols and uncorrectable errors

- Key Performance Indicator testing using ATPv3 which provides frame loss, out-of-sequence, and latency measurements

- Bit Error Rate testing using a choice of different PRBS patterns in Ethernet frames

- Selection of various payload sizes up to 10,000 bytes including random distribution and EMIX

- Full line rate bandwidth including Ethernet burst testing

- Unframed Bit Error Rate testing in order to test crosstalk between individual lanes and errors per lane

- Optics Self-Test for QSFP-DD devices. Includes pre-FEC and post-FEC BER results with pass/fail results based on BER theory, PPM offset testing, and temperature monitoring

- Control of QSFP-DD devices and registers via expert mode

- Ethernet level testing including QuickCheck, RFC 2544, and Y.1564 SAMComplete™

RFC-6349
TrueSpeed
Validates TCP Throughput and
User Experience

J-Proof
Layer 2 Transparency
Validates Layer 2 Control plane Transparency – CDP,
SDP, etc.

Enhanced RFC-2544
Validates KPI for single stream
No control-plane or user
experience validation

Y.1564 SAMComplete
Validates KPI for multiple Class
of Service (COS) or connections
No CP or user experience

QuickCheck
Validates basic connectivity & traffic

Part of the Leading T-BERD/MTS Test Portfolio

StrataSync — Empower Your Assets

StrataSync is a hosted, cloud-enabled solution for managing assets, configurations, and test data on VIAVI instruments. It ensures that all instrument software is current, improving instrument efficiency and technician effectiveness as a consequence. StrataSync enables inventory management, test result consolidation, and performance data distribution with browser-based ease. StrataSync manages and tracks test instruments, collects and analyzes results from the entire network, and helps train and inform the workforce.

Cono Sur
+54 11 5368-4400
info@tecnous.com
Av. Caseros 824 (C1152AAR), Buenos Aires, Argentina.

Centro América, Caribe y US
+ 1 (305) 529-3667
info@tecnous.com
6735 NW 36th Street Suite 390 | Miami, FL 33166

TECNOUS

VIAVI Solutions

Contact Us **+1 844 GO VIAVI**
(+1 844 468 4284)

To reach the VIAVI office nearest you,
visit viavisolutions.com/contact

viavisolutions.com