

VIAVI

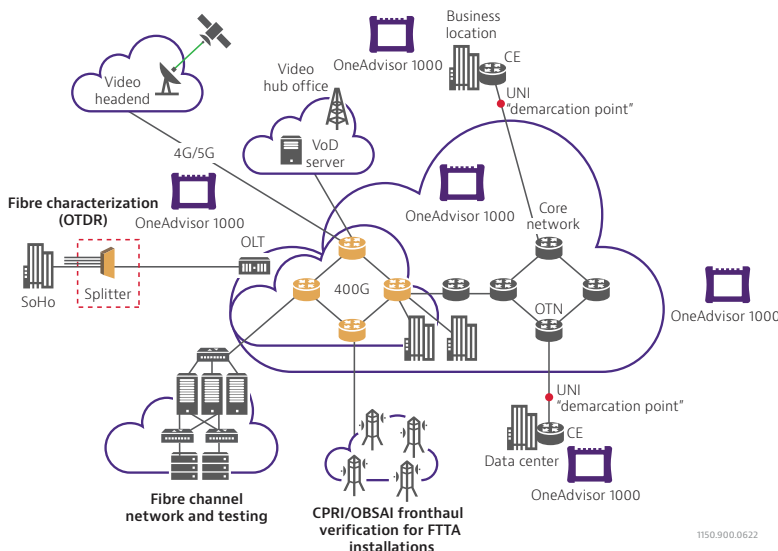
OneAdvisor 1000

High-Capacity 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 up to 400G. Supporting emerging and legacy technologies, the OneAdvisor 1000 is ideal for metro/core, data center interconnect, and business services testing. OneAdvisor 1000 uses the exact same User Interface as all T-BERD/MTS products.

The industry's most comprehensive tool for up to 400Gbps testing provides full rate and protocol coverage to address service activation, troubleshooting, and maintenance. This portable tester provides the latest technology with interfaces such as QSFP-DD and SFP-DD. The OneAdvisor 1000 provides rate integration spanning 400GE down to T1/E1 in addition to fiber optic testing using OTDRs. The supported combinations provide investment protection by covering future technology and all legacy protocols. With advanced tests like Optics Self-Test for QSFPx and SFPx pluggables, high-speed cable testing for data centers, RFC 2544/Y.1564, and OTN Check, technicians can test their networks faster and more accurately than ever before.



Benefits

- Simplifies multi-technology testing via modularity to provide an all-in-one solution
- 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
- Complete support of protocols including Ethernet, OTN, SONET/SDH, PDH, Fibre Channel, CPRI, and eCPRI
- Investment protection via superior cooling. This is mandatory to use ZR+ devices and upcoming 0dBm QSFP-DD optical devices

Features

- Tests new technology including PAM4 and RS (544,514) FEC at 400GE, 200GE, 100GE, 50GE
- 50GE support on SFP56 optics
- Superior battery life (beyond 1.5 hours) running 400GE with efficiently cooled QSFP-DD optics including ZR
- 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/OSA modules
- Scalable and modular
- Comprehensive rate testing from 400GE down to DSx PDH (1.5M/2M) including all intermediate Ethernet rates

Comprehensive Tool

The OneAdvisor 1000 provides modularity with the following attributes:

- 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
- SmartAccess Anywhere provides easy device access from an Android device, IOS or PC
- Cloud-base StrataSync™ for results collection, data management, and device tracking
- Can stack two 400G Modules for concurrent operation including on battery. Can also stack a 400G and 100G Module. 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 portable instrument. The OneAdvisor 1000 accepts the following modules:

- 400G module with PAM4 400GE, 200GE, 100GE (no FEC or KR4 FEC or detailed KP4 FEC), 50GE with SFP56 testing, 40GE, 25GE, 10GE and OTN support. Full support of 400GE ZR and ZR+ is available with HW-readiness for upcoming technology such as SFP-DD. Reporting of full power consumption for all pluggable types.



- 100G module with support of independent dual tests for any protocol from T1/E1 to OTU4 including intermediate rates like 10GE and 25GE. Support of Ethernet, FlexE, OTN, Fibre Channel, CPRI, SONET/SDH, PDH



- Full family of OTDR modules, with Smart Link Mapper which provides an icon-based map view for clear diagnostics of detected issues. Also supports Channel Checkers which display a wavelength spectrum and the OCV/OSA-4100 with full band support and tunable SFP support.



Ease of Use

- Fixed test interfaces eliminate loose, pluggable modules
- LEDs indicate plug-ins for tests
- Streamlined user interface provides simple pass/fail, green/red results
- Long duration battery support at all rates
- Expandable via interchangeable test modules

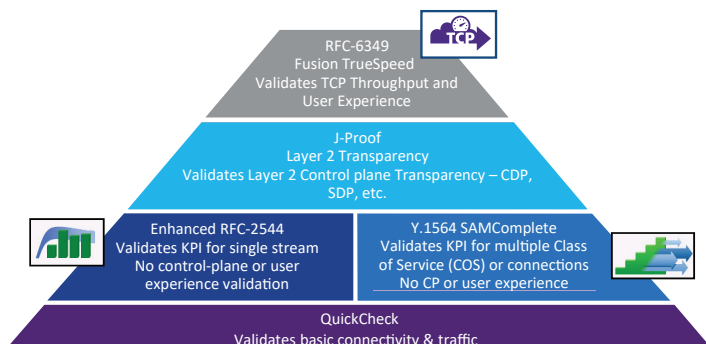
Troubleshooting with Optics Self-Test

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. Available on QSFP-DD, QSFP, SFP.

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.
- Troubleshoot using capture and Wireshark decode at any Ethernet rate up to line rate 400GE.



400GE/200GE Testing

The 400G Module enables the tests specific to 400GE/200GE, including:

- Testing using 400GE ZR and ZR+ pluggable modules. Can set the transmitter to different channel/wavelength/frequency values and optical power levels. Reporting of power consumption, temperature and coherent stats such as CD, DGD, PMD, PDL, OSNR.
- RS (544,514) FEC testing for correctable errors up to 15 symbols and uncorrectable errors. Monitoring of high BER rates with user settable alarm threshold.
- 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. Multi-lane unframed BERT option available.
- Selection of frame sizes up to 16,000 bytes including random distribution and EMIX.
- Support of up to 4 VLAN tags.
- Full line rate bandwidth including Ethernet burst testing. Support of layer 2 and layer 3 IPv4 testing including ARP, DHCP and IPv6 with NDP.
- 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. This includes pre-emphasis and per register access.
- Ethernet level testing including QuickCheck, RFC 2544, and Y.1564 SAMComplete™.
- Full QSFP-DD register programming and setting of pre-emphasis in expert mode.
- Reporting of full QSFP-DD power consumption and reporting of CMIS host-media applications.
- Changing of CMIS application codes. This is the method to switch between ZR and ZR+ for instance.

Most Complete 100GE Testing

It is possible to switch between 100GE no FEC, RS (528,514) FEC, and RS (544,514) FEC instantly. This is especially significant for RS (544,514) where it is possible to disable the QSFP28 media FEC and then perform full FEC analysis including the symbol error distribution table, pre-FEC BER reporting, post-FEC and FEC error injection.

OTN Service Activation with OTN Check

The unique VIAVI OTN Check tool greatly simplifies the testing OTN services. This workflow tool automates the process of turning up a new OTN service by integrating key tests like OTN payload verification, round-trip delay, overhead transparency testing and encryption testing. OTN Check streamlines the test process and generates pass/fail results.

OTN at OTU4, OTU2e/1e is also available with Ethernet client where it is possible to run RFC 2544.

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.



StrataSync

VIAMI Care Support Plans

Increase your productivity for up to 5 years with optional VIAMI Care Support Plans:




- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region.

To find out which VIAMI Care Support Plan options are available for this product in your region, contact your local representative or visit: viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
 BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
 SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
 MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	✓



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