

Brochure

VIAVI

OneAdvisor 800 Transport for Government and Defense

Rugged, Field-Optimized Network Meter Up to 400G

The perfect test platform for fiber and network test for tactical, infrastructure, data center, lab, and NOC applications

Government and Defense at all levels are being challenged to deliver greater amounts of information and services to citizens, agencies, and decision makers wherever they may be – a challenge made greater during periods of heightened national security and/or wartime. The goal is to deliver services and data as quickly and reliably as possible, without disruptions. To ensure that these goals are met, the health of the underlying network platform must be rigorously maintained.

Engineered to support that mission is the TAA-compliant, OneAdvisor 800 Transport, the industry’s most integrated and compact meter for up to 400Gbps testing. This solution provides full rate coverage to address service activation, troubleshooting, and maintenance. The 400G Transport Module provides optics coverage for QSFP-DD/QSFPx, OSFP and SFP-DD/SFPx. In addition, the OneAdvisor 800 integrates fiber optic testing with OTDRs and OSAs, as well as an option for 5G RF testing.

Designed to support the most complex IT and communications networks, the OneAdvisor 800 Transport helps Government and Defense get the best possible performance from their network investments. VIAVI also removes buying complexity via our partnerships and participation in multiple procurement contracts including GSA.



Key Applications

- **Transceiver Module Testing:** Testing assesses the module’s ability to meet the specified data rate, signal quality, and error rates, ensuring reliable data transmission.
- **AOC/AEC/DAC Testing:** Because DAC, AEC and AOC do not provide direct test access to the cabling, traditional test tools cannot be used to certify or troubleshoot the cable. OneAdvisor 800 can accept dual transceivers and generate and analyze traffic up to 400G.
- **Data Center:** A modern data center has many failure points, and all components can be tested with OneAdvisor 800 – equipment (transport gear, Ethernet switches, routers), networks, pluggable optics, and cable assemblies
- **Network Bit Error Rate Testing (BERT):** Whether Y.1564 or RFC 2544, bit error testing measures the rate at which bit errors occur across a circuit, which is crucial for testing program services end-to-end, to assess the accuracy and integrity of data transmission across it.



Use Case: Tactical Mesh Network Testing

VIAMI helps military organizations solve hundreds of test challenges at bases, command posts, and in the field, for example the testing of next-gen radios in a packet-based, tactical mesh network, also called a “mobile ad hoc network” (MANET).

To ensure optimal performance in battlefield conditions, the OneAdvisor 800 performs a comprehensive radio network performance evaluation, whether the links are terrestrial or over-the-air (via microwave, satellite, 5G, etc.). In a staging area, the network can be stress tested and checked for interoperability and quality of service prior to deployment (typical tests: spectrum analyzer, cable antenna analyzer, RFC 2544 and Y.1564).

Once in the field, a single OneAdvisor 800 is used to ensure uninterrupted connectivity amongst all nodes/radios in the mesh, whether mobile or fixed, and to safeguard high quality of service throughout the engagement (typical tests: ping and traceroute).

Important Features

- **Industry-Leading Expandability:** Tests fiber (OTDR, OSA) and all Ethernet rates single or dual port (400, 200, 100, 50, 40, 25, 10, and 1), and OTN (Optical Transport Network).
- **Superior Battery Life:** Scalable to multiple batteries which enables hours of unconnected use
- **Unmatched Cooling:** Best in class for 400G portables – easy to cool ZR/ZR+ pluggables
- **Conveniently Portable:** The smallest dual-400G capable test unit on the market
- **Broad Test Coverage:** Modularity delivers all-in-one solution across lines rates and protocols
- **Multiple Optics Support:** QSFP-DD/QSFPx, OSFP, SFP-DD/SFPx enabled, and full coherent optic support



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

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visit viavisolutions.com/contact

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