Brochure

VIAVI

ONE LabPro

High-Speed Network Test Up to 1.6T for Lab and Live Testing

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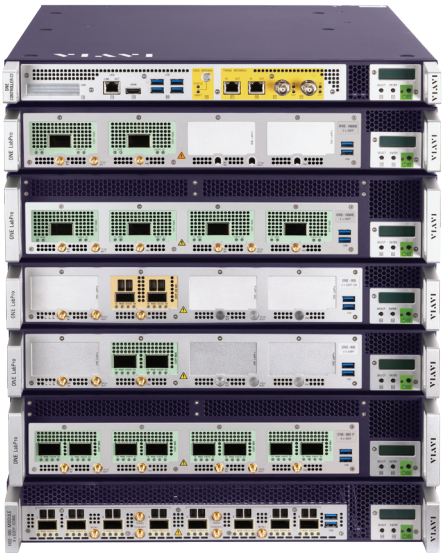
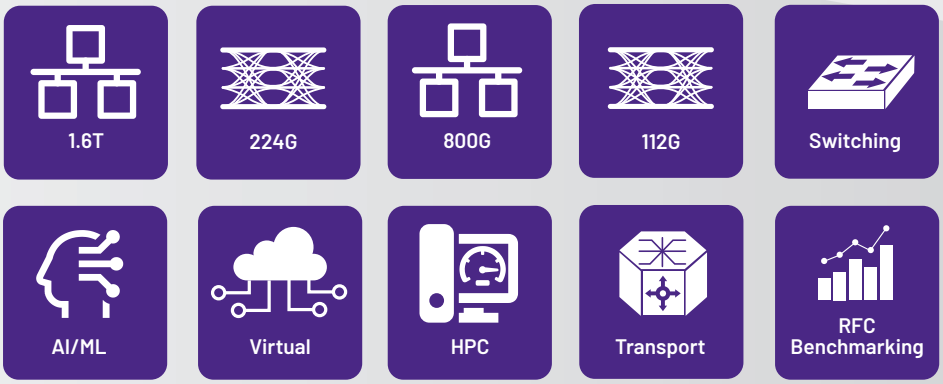


Multi-Port, Multi Flow

High port count, data and control plane traffic scale to verify Ethernet fabric performance.

Advanced Hardware and Software Testing Solutions for Demanding Network Challenges

Emerging applications like AI, ML, HPC, Virtualization and Quantum Computing – combined with speeds per port up to 1.6T – will create progressively more difficult challenges for manufacturers of chips, pluggables and network equipment. Now, more than ever, engineers rely on the feature-rich functionality and deep insights of VIAVI Lab and Live testing solutions.



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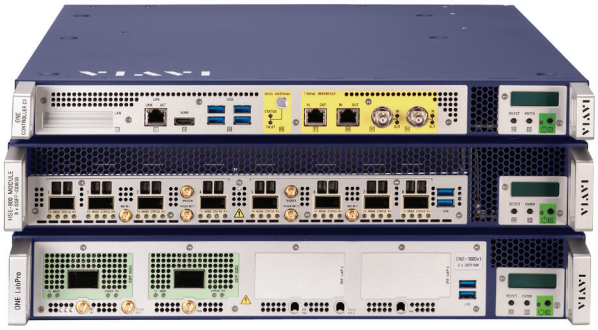
Award-winning Platform for Multi-port, Multi-flow High-speed Ethernet Testing

Perfect for IC designers, high-speed module suppliers, ICPs, NEMs and service providers who work on high-speed Ethernet projects, the VIAVI ONE LabPro platform blends insightful physical layer testing capabilities with multi-port, multi-flow Layer 0-2 Ethernet testing. The system facilitates data plane and control plane testing, high-scale traffic generation, and precision delay testing with a Python-based advanced automation framework.

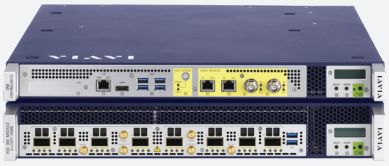
The ONE LabPro platform is configured using an individual controller along with various, independently managed testing modules with individual port capability to 1.6T. Multiple test modules can be stacked or distributed as shown on the following page. Leveraging the ONE LabPro Controller Web UI and Automation, users can add virtual test ports at 10GE, 25GE, 40GE and 100GE.



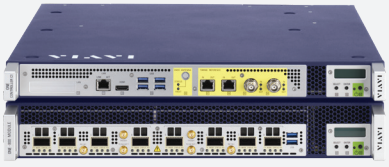
Applications

- Cable testing — DAC/ACC/AEC/AOC
- Transceiver testing — LPO through Coherent ZR+
- Chip/ASIC silicon component ecosystem tests
- System testing — transport and switching

800G

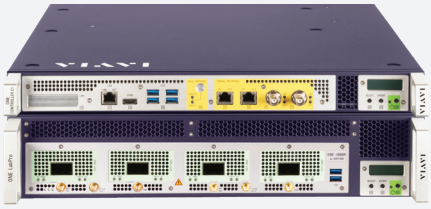


ONE Controller C1 with HSE-800 (8 Port)
QSFP-DD800



ONE Controller C1 with ONE-800 (2/4/8 Port)
QSFP-DD800
OSFP 800G

1.6T



ONE Controller C1 with ONE-1600 (2/4 Port)
OSFP 1600G
OSFP 1600 RHS

2024 LIGHTWAVE INNOVATION REVIEWS 4.0

2025 LIGHTWAVE + BTR INNOVATION REVIEWS 4.5

2026 LIGHTWAVE INNOVATION REVIEWS 4.5

Chips | Modules | Systems | Live Test

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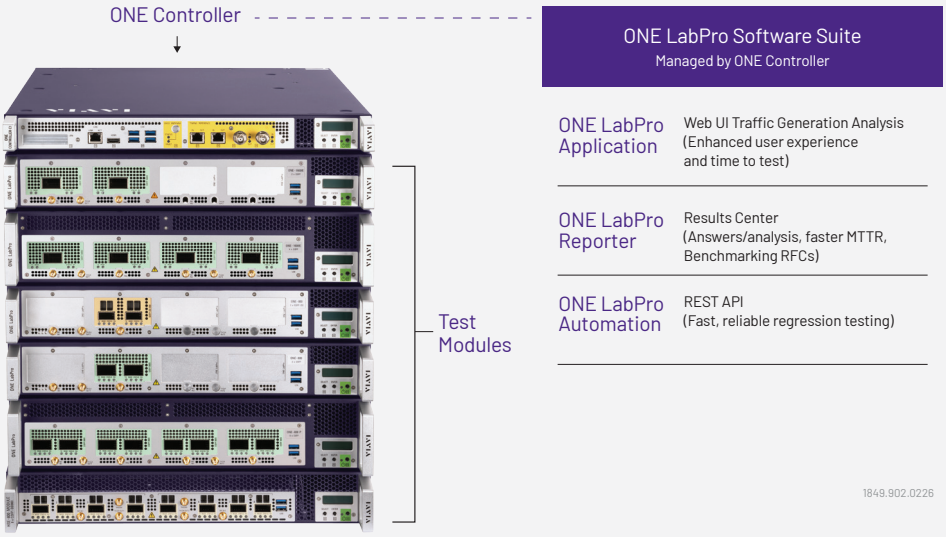
Dense and Highly-Scalable Configuration

ONE LabPro features the highest levels of port density and scalability in the market accommodating up to 16 test modules supporting up to 64 x 1600Gb/s test ports, 128 x 800Gb/s test ports, 256 x 400Gb/s test ports or 1,024 x 100Gb/s test ports. The system can synchronize mixed combinations of test modules, centrally managed by the ONE Controller, with versatile and easy-to-use software tools. Star topology connectivity enables accurate latency measurements between any two ports without degradation.

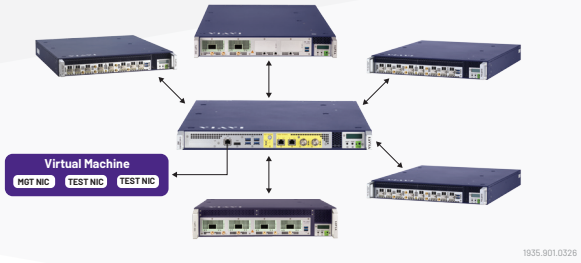


Test Module Combinations

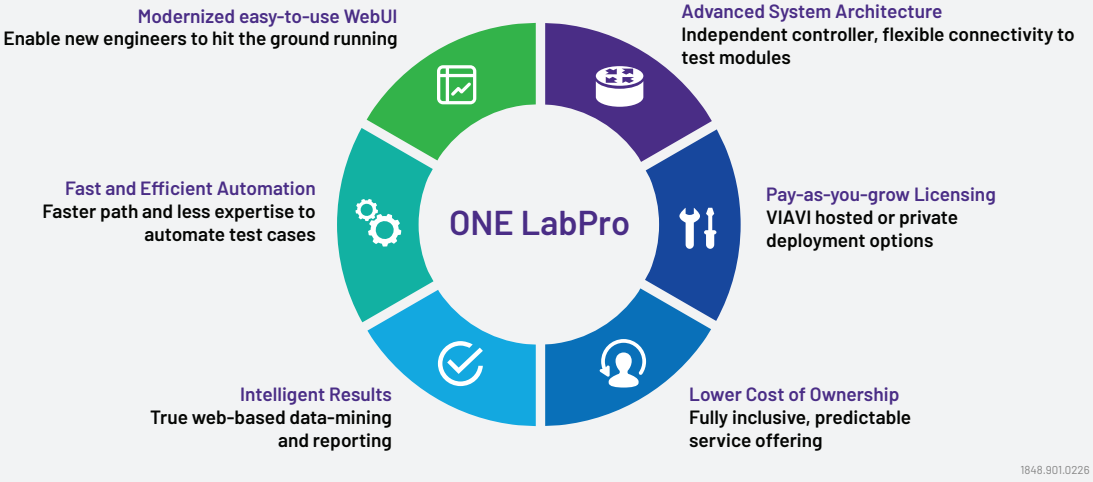
One Controller – Independent Module Management

The ONE Controller connects and independently controls up to 16 modules in a star architecture. The system offers full breakout capabilities with multi-user logical port support and single user per logical port granularity. Virtualization adds cost-efficient support for lower-rate interfaces.

Star Topology Deployment



VIAVI ONE LabPro Platform Benefits



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ONE LabPro Care – All-inclusive Service Offering

ONE LabPro Care is an all-inclusive, fixed-fee service offering designed to enhance return on investment and eliminate unforeseen expenses.

This easy-to understand support plan includes everything you would expect including extended warranty, loaner program, software maintenance, an online ONE LabPro Knowledge Base, and the technical support only VIAVI can provide. ONE LabPro Care subscribers also will have access to Customer Success Managers who can help with onboarding, resolution, and escalation if necessary. A variety of Professional Services can be added as an option.

1845.900.0724

ADVANCED LAYER 0-7

PHY Validation, AI Fabric, Network, and Security Test Solutions

ONE LabPro®

L0-L2 Ethernet Testing to 1.6T

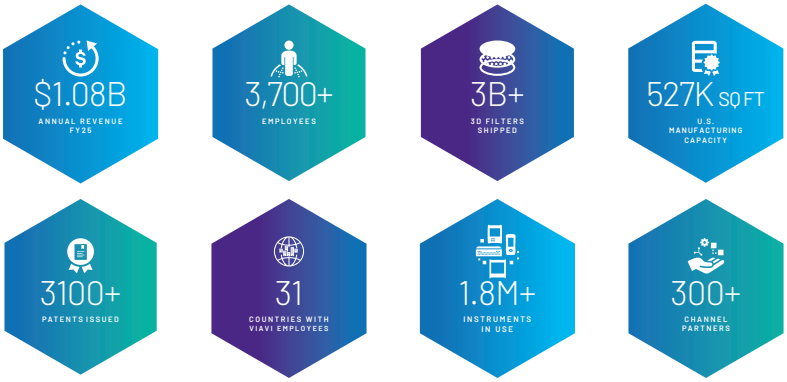
TestCenter

L2-L3 Ethernet AI Workload and Protocol Emulation to 1.6T

CyberFlood

L4-L7 Application Performance and Network Security

Trusted by Engineers for More Than 100 Years



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Personal customer support and deep technical expertise you have come to expect from VIAVI

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