



# 100G ONT for Service Provider Labs

The ONT 100 G solution is a comprehensive 40/100 G evaluation system built for the Viavi Solutions ONT platform—the platform of choice for developing and evaluating high-speed interfaces.

It offers comprehensive Layers 1/2/3 coverage with the ease-of-use of the ONT graphical user interface (GUI). Features such as packet capture and dynamic skew can be added as options when the need arises to cover all aspects of 100 G evaluation and deployment throughout the life cycle. The intuitive GUI provides full control over all key parameters and errors and alarms can be quickly identified for fast, comprehensive troubleshooting. The ONT 100 G solution gives complete confidence with comprehensive and precise results for validation.

## Key Benefits

The ONT 100 G covers all the important parameters of 100 G from low-level transponder evaluation through to complete RFC 2544 quality of service (QoS).

- **Unique, one-button CFP test** — takes the guesswork out of complex CFP optics with comprehensive screening. This quick and simple test lets you focus on evaluating the 100 G service rather than debugging optics.
- **Easy-to-use GUI** — provides an at-a-glance overview of each layer with clear indications of alarms and errors. It lets you quickly drill down to analyze errors without getting lost in layers of menus.
- **Repeatable and accurate results** — multiply productivity with scripting and remote control. Remote operation lets experts log in and help resolve issues and anomalies from anywhere.
- **Scalable** — features such as deep OTN muxing and ODU0 can be added later so the instrument can grow with your network needs.

## Applications

- Service provider labs evaluating and testing new 100 G network equipment
- Network-equipment manufacturers demonstrating 100 G equipment to potential customers
- University and government labs investigating 100 G
- Screening and evaluating of CFP optical modules to ensure reliable, trouble-free 100 G interface deployments

## Feature/Benefit Summary

Feature	Description	Advantage	Benefit
One-button CFP test	Comprehensively tests all CFP functions	<ul style="list-style-type: none"> <li>Quickly validates aspects of complex and expensive CFP optics</li> <li>Easy-to-use default test GUI</li> <li>Clear pass/fail criteria</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate guesswork with CFPs</li> <li>Focus on link validation rather than debugging CFP issues</li> <li>Ease-of-use ensures field staff can double check optics before a test</li> </ul>
Powerful GUI	The layered GUI of the Viavi ONT platform gives a complete overview of all layers at once and includes many comprehensive default tests	<ul style="list-style-type: none"> <li>Shorter training time for users</li> <li>Easy to use and navigate</li> <li>Clearly indicates faults, alarms, and errors</li> </ul>	<ul style="list-style-type: none"> <li>Spend more time on productive testing</li> <li>Gets to the required test quickly—eliminate getting lost in menus</li> <li>Quickly access root causes</li> </ul>
Comprehensive range of software features from physical-layer to deep-OTN muxing	The ONT platform has a wide range of powerful applications for the 100 G ONT covering everything from 40 GE through to layered-OTN multiplexing.	The ONT 100 G can be enhanced to cover future 100 G applications and technologies.	<ul style="list-style-type: none"> <li>Unit grows as needs change, letting you upgrade as needed</li> <li>As new 100 G features roll out, end users stay productive because they already know the ONT</li> </ul>
Established industry standard for 100 G testing with equipment manufacturers and module vendors	The ONT 100 G is the 100 G test solution of choice across the world for all major equipment manufacturers and module vendors.	<ul style="list-style-type: none"> <li>Validation tests are consistent and reconcile with equipment manufacturers</li> <li>Provides consistent testing across the whole of installation, validation, and deployment</li> </ul>	<ul style="list-style-type: none"> <li>Investigate issues found during validation using the same equipment to quickly highlight issues and fix problems</li> <li>Eliminates testing blind spots</li> </ul>

## Typical Configuration

Description	Part Number
ONT-606D 6-slot mainframe with high-end controller and display	BN 3076/04
100 G module with CFP slot (supports 100 G rates, basic Ethernet)	BN 3076/92.50
Physical layer validation (adds CFP testing)	BN 3076/92.52
IP/multistreams (adds IP QoS, and other capabilities)	BN 3076/94.54



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