



ONT Family

Comprehensive Telecom and Datacom Lab Test Solution

Addressing Multiple Transport Technologies in a Powerful Lab Test Platform and Suitable for Early Technology Deployments

The JDSU ONT Optical Network Tester family supports all areas of the optical transport network's life cycle by providing test and measurement solutions for established as well as emerging high speed network elements and their building blocks.

Engineered through industry leading research and development, the ONT provides state of the art test applications that are widely used throughout the design and development phase as well as system verification, manufacturing and tier 3 troubleshooting and maintenance in the field.

The advanced multi-user and multi-port architecture of the ONT instruments makes them the ideal tool for test teams that can share various, independent applications during integration and regression testing. Additionally, the portable ONT-503 provides solutions for early field deployment of new high speed solution like 100G.

An easy-to-understand user interface helps to speed up design and troubleshooting, while the wide range of automation support functions make it easy to design sophisticated regression test and state of the art manufacturing test applications.

Operation via browser or command line interface enables the operation of the instrument from virtually anywhere, so that using the ONT by off-site remote teams is as easy as using it locally.

Full Range of
Applications

Multi-Port and
Multi-User

Easy-to-Use
Browser GUI

Efficient Test
Automation

Supported Technologies

Ethernet

- Physical layer testing at 10/100/1000MBase-T, 1GigE, 10GigE and 40/100GigE
- Easy, multiple flow traffic generation with dynamic error/alarm insertion
- Real-time QoS and service disruption tests
- Ethernet transported in standard and overclocked 10G OTN rates

OTN G.709 and overclocked

- OTN 2.7G, 10.7G and 43G with SDH/SONET and bulk clients
- FEC stress test with walking pattern
- Wrapper/de-wrapper tests and ODU multiplexing
- GCC real-time data capture for GMPLS decoding
- OTU4 at 111.8G with Ethernet and OTU3e1 with NRZ and DPSK (under preparation)

Fibre Channel

- Sophisticated PCS capabilities at 10G FC
- Credit buffer handling
- Full load traffic
- Support of Fiber Channel mapped in 10G OTN via overclocked bit rates

SDH/SONET/EoS/MultiChannel/DSn/PDH

- SDH/SONET from STM-1/OC-3 up to STM-256/OC-768
- MultiChannel testing 64 × AU4; 192 × STS-1 at 10 Gb/s or 1008 VC12; 1344 VT1.5 at 10 Gb/s or 2.5 Gb/s
- High resolution service disruption testing
- Comprehensive VCAT/GFP/LCAS testing with LCAS state trace and full aggregation up to 10G
- Interworking test between SDH/SONET and Ethernet interfaces

Jitter/Wander

- Jitter/Wander testing for all SDH/SONET/OTN standard bit rates
- Sync Ethernet including jitter testing at 10.3G Ethernet
- Guaranteed receiver jitter accuracy verified by accuracy maps according to ITU-T O.172 Appendix VII/VIII
- OTN mapping/demapping jitter tests
- Wander measurements with four different sampling rates for TIE analyzing transients and long-term effects
- Online MTIE/TDEV analysis
- TDEV noise modulation of clock and line signals

ONT: Designed for the future

The ONT is the flagship lab platform from the industry leader with years of experience in supplying powerful and reliable test solutions to the communications industry. The modular concept of the ONT mainframe is designed for future growth, higher speeds, and new technologies. This concept is designed to keep up with an ever changing market and to grow as your needs evolve.

JDSU: Unmatched service and support

JDSU's Global Services and Support (GSS) organization provides world class maintenance, calibration and application support throughout the entire product life cycle. With direct sales and technical support in over 31 countries and with representations in more than 80 countries, JDSU service is in a class by itself.

JDSU: The Reliable Partner

JDSU has the largest installed base of communications test solutions in the world and continues to invest heavily in this industry.

At JDSU, we understand what it takes to support the dynamic communications test market and we have the infrastructure and financial resources needed to consistently provide our customers with reliable test solutions that come standard with the premium support that only JDSU can deliver. Every major telecom equipment manufacturer and service provider in the market trusts JDSU products for their testing needs. For more information on how your company can benefit from JDSU's world class test solutions, please contact your local sales engineer or visit www.jdsu.com.