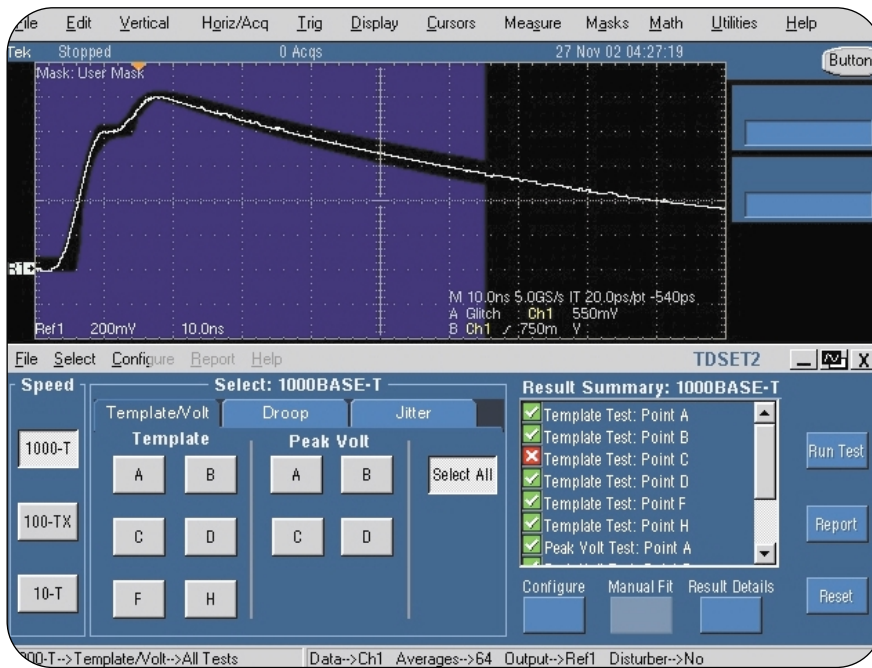


Ethernet Compliance Test Software

► TDS2



Ethernet Physical Layer Compliance Testing

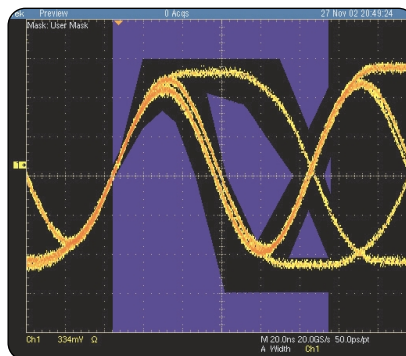
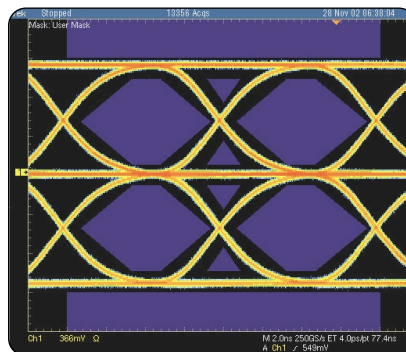
Engineers designing and validating the Ethernet physical layer of their devices face constant pressure to improve efficiency. Engineers need tools to perform quick and reliable compliance testing right on their bench.

TDS2 Ethernet Compliance Test Software, coupled with TDS/CSA7000 and TDS6000 Series oscilloscopes, enhances efficiency with faster validation cycles and much higher reliability.

- One solution for all – 10, 100 and 1000Base-T
- Improved Efficiency
- Reliable Testing

Comprehensive Range of Tests

TDS2 addresses the wide spectrum of 10Base-T, 100Base-TX and 1000Base-T technologies. The portfolio of tests includes Template testing, Amplitude and Jitter tests and many other essential tests.



► Features & Benefits

Wide Range of Tests for 10/100/1000Base-T Enables Complete Validation To Standards

Automatic “One-button” Testing Ensures Faster Testing with Much Higher Reliability

Automatic Pass/Fail Notification Delivers Quick Results

Auto-fit Process Minimizes Time for Testing

Automatic Jitter Measurements Eliminate Human Intervention for Faster and Reliable Measurements

Sophisticated Report Generator Saves Time

► Applications

Design and Validation of 1000Base-T Physical Layer

Design and Validation of 100Base-TX Physical Layer

Design and Validation of 10Base-T Physical Layer

COMPUTING

COMMUNICATIONS

VIDEO

Ethernet Compliance Test Software

► TDSSET2

Improved Efficiency

The unprecedented automation offered by TDSSET2 enables faster validation cycles and makes testing effortless. For instance, perform all six template tests and four amplitude test on 1000Base-T with the press of a button. **Select All**

► Characteristics

1000Base-T Tests

Templates – Points A, B, C, D, F, H.

Peak Voltage – Points A, B, C, D.

Droop – Points G, J.

Jitter Modes – Master, Slave.

Jitter Tests – Unfiltered, Filtered.

Filter Options – Internal, External.

Disturber Options – With, Without.

Mask-fit Options – Auto-fit, Manual Fit.

Averaging – User-configurable.

100Base-TX Tests

Template, Output Voltage, Amplitude Symmetry, Rise and Fall Time, Rise/Fall Symmetry, Overshoot, Jitter and Duty Cycle Distortion.

10Base-T Tests

Template – MAU Ext (and inverted), MAU_Int (and inverted), TP_IDL, Link Pulse.

Jitter – With and without cable.

Harmonic – Content of Ones.

Amplitude – Differential Voltage.

Mask Configurations

Auto-fit, Waveform/Sample Count.

Tektronix Oscilloscopes Supported

TDS/CSA7000 and TDS6000*¹ series oscilloscopes with version 2.2.0 or above.

*¹ TDS6604 support for jitter tests.
Unfiltered – 2M waveform database samples.
Filtered – 6000 edges.

► Ordering Information

Test Software

Includes: Application CD and electronic documentation.

To Order Along with Oscilloscope

Opt. ET2 – Ethernet Test Software.

To Upgrade Existing Oscilloscope

TDS6000 – Order TDS6UP: Opt. ET2.

TDS7000 – Order TDS7UP: Opt. ET2.

CSA7000 – Order CSA7UP: Opt. ET2.

Recommended Accessories

Oscilloscope – Opt. 2M for TDS/CSA7000 (for 1000Base-T Filtered Jitter Tests).

Differential Probes – P6247, P6248.

Active Probes – 1 GHz and above based on oscilloscope (for 1000Base-T Jitter Tests).

Arbitrary Waveform Generator – AWG410/420/430, AWG 2021 (for Disturbing Signal Generator).

Probe Positioner – PPM100 Flexible Arm Probe Positioner.

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www.tektronix.com



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