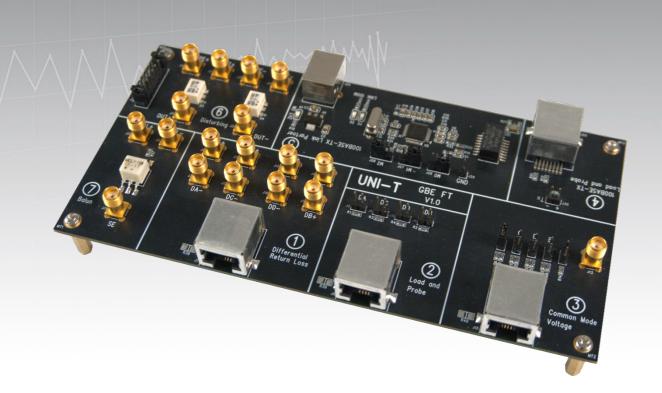


100M BASE-TX Ethernet Compliance Software



User Manual REV.1.0

June 2025

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1. Ethernet Compliance Analysis Overview

Ethernet is currently the most widely used computer networking technology, with its origins dating back to 1973. Before 2008, 10Mbps Ethernet was generally sufficient to meet the networking requirements of that period. Can you remember if the broadband speed you had at that time was less than 10Mbps? Later, 100Mbps Ethernet, commonly known as Fast Ethernet, was introduced. It was designed to deliver 100Mbps transmission over existing twisted-pair cabling, representing a tenfold improvement in speed. 100BASE-TX is one of the physical layer specifications defined under the Fast Ethernet standard.

Ethernet compliance testing is defined by IEEE and ANSI standards. Unlike USB or Wi-Fi, there is no official certification authority for Ethernet that issues compliance reports or certificates. Nevertheless, Ethernet compliance testing during device development is widely practiced. This process verifies whether the physical layer signal quality of a device complies with international standards such as IEEE, thereby ensuring that Ethernet products from different manufacturers remain interoperable. For 100BASE-TX, compliance testing generally covers items such as amplitude testing, time-domain testing, jitter testing, and eye diagram mask testing.

2. Test Items and Standard

2.1 Test Items

- AOI Template Test
- AOI Rise/Fall Edge Time Test
- Overshoot Test
- Peak Differential Voltage Test
- Jitter/Duty Ratio Distortion Test

2.2 Test Standard

Test Items	Test Sub-itmes	Reference Standard	
AOI Template Test	LITD AOL tomplate	IEEE 802.3-2018, Clause 25	
	UTP AOI template	ANSI X3.263-1995, Appendix J	
AOI Rise/Fall Edge Time Test	AOI +V _{out} fall time		
	AOI -V _{out} rise time		
	AOI +V _{out} rise time		
	AOI -V _{out} fall time	IEEE 802.3-2018, Clause 25	
	AOI +V _{out} rise/fall time	ANSI X3.263-1995, Section 9.1.6	
	symmetry		
	AOI -V _{out} rise/fall time		
	symmetry		

	Overshoot (Positive pulse width)	IEEE802.3-2018, Clause 25	
Overshoot Test	Overshoot (Negative pulse width)	ANSI X3.263-1995, Section 9.1.3	
	UTP differential output voltage		
	(Pos)	IEEE802.3-2018, Clause 25	
Peak Differential Voltage Test	UTP differential output voltage	ANSI X3.263-1995, Section	
	(Neg)	9.1.2.2	
	Signal amplitude symmetry		
	Duty ratio distortion	IEEE 802.3-2018, Clause 25	
Jitter/Duty Ratio Distortion	Duty ratio distortion	ANSI X3.263-1995, Section 9.1.8	
Test	Transmitter jitter (Pos)	IEEE 802.3-2018, Clause 25	
	Transmitter jitter (Neg)	ANSI X3.263-1995, Section 9.1.9	

3. Test Equipment

3.1 Requirements

■ Oscilloscope: Bandwidth > 1GHz, with Ethernet compliance test software installed

■ Ethernet Compliance Test Fixture: Provides signal access points.

■ Active Differential Probe: Bandwidth > 1.5GHz

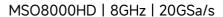
3.2 Configuration

Oscilloscopo	≥ 1GHz bandwidth, recommended: MSO7000X,		
Oscilloscope	MSO8000HD series		
Active Differential Probe	≥ 1.5GHz bandwidth, recommended: UT-PD1500, UT-		
Active Differential Probe	PD2500		
Test Fixture	UNI-T Ethernet compliance test fixture (UT-GBE-FT) or		
rest rixture	association-recommended		
100BASE-T Compliance Test Software	UNI-T CTS-ENET100		
CAT6 Network Cable	Compliant with transmission line requirements		

Oscilloscopes

UNI-T's high-bandwidth oscilloscopes, MSO8000HD and MSO7000X series, offer bandwidths from 1GHz to 8GHz and sampling rates up to 20GSa/s. MSO8000HD's 12-bit ADC provides accurate measurement data essential for compliance testing. Its excellent signal integrity characteristics, such as noise floor below 800µV at 50mV/div, ENOB > 7bits across full bandwidth, and low intrinsic jitter of 150fs RMS, ensure reliable compliance analysis data.







MSO7000X | 2GHz | 10GSa/s

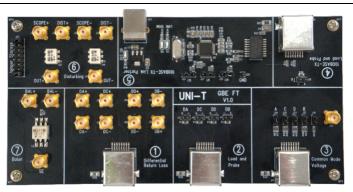
Active Differential Probe

The association requires probes with a bandwidth of at least 1.5GHz for compliance analysis to ensure accurate results. UNI-T offers self-developed UT-PD2500 (2.5GHz) and UT-PD1500 (1.5GHz) active differential probes to support Ethernet compliance testing. These probes provide a reliable connection to the DUT (Device Under Test) and offer a very high price-to-performance ratio.



Test Fixture

The UT-GBE-FT fixture is designed for use with the CTS-ENET-100 in Ethernet compliance analysis. It supports both 100BASE-T and 1000BASE-T compliance testing and is divided into multiple zones, each serving distinct functions to facilitate signal access. The fixture provides multiple test points to minimize interference and ensure accurate signal quality verification. For detailed specifications, refer to the *Ethernet Signal Quality Test Fixture-User Manual*.



Ethernet Test Main Fixture



Return Loss Calibration Fixture

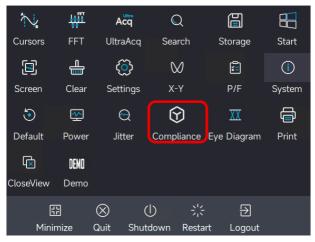
4. Compliance Test Software

UNI-T CTS-ENET100 physical-layer compliance test software automatically configures the oscilloscope and executes tests. It provides graphical guidance for switching fixtures or probes, ensuring accurate and repeatable results.

Key Features

- Supports single-test execution or batch testing
- Optimized, intuitive user interface for visual monitoring of the oscilloscope and connections,
 enabling fast test setup and electrical performance verification
- Fully automated oscilloscope control, with automatic configuration for each test item
- Generates comprehensive test reports including results, pass/fail status, test margins, and waveform images
- Allows flexible configuration of test parameters and traces for debugging and characterization
- Supports multiple rounds of tests for result verification and analysis

Click the **Compliance** icon in the Start menu to enable the compliance test function, as shown in the figure below.



Compliance Test Software

Compliance test software functions: Test settings, test status, save settings, and test report.

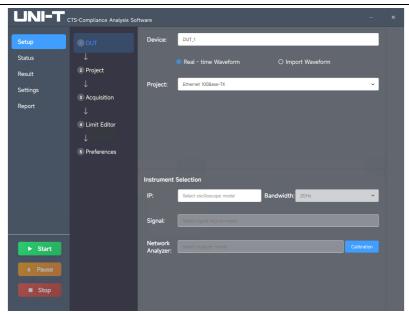
4.1 Test Setup

Click **Setup** to open the menu and configure the test.

DUT:

Project: Ethernet 100Base-TX

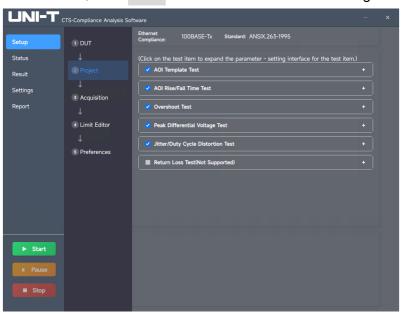
IP: If testing locally, oscilloscope model selection is not required.



Test Settings

Project:

In this section, select the test items to be executed. A check mark appears in front of each selected item. After making your selections, click **Start** in the lower-left corner to begin testing.



Test Items Settings

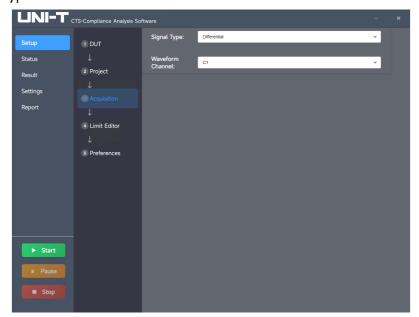
Click the + symbol on the right side of a test item to expand its sub-items. Selecting a sub-item allows you to configure it individually.

AOI template test: Configure the number of acquisitions, failure threshold, and template size.

Other test items: Configure the number of averages and the acquisition mode.

Acquisition:

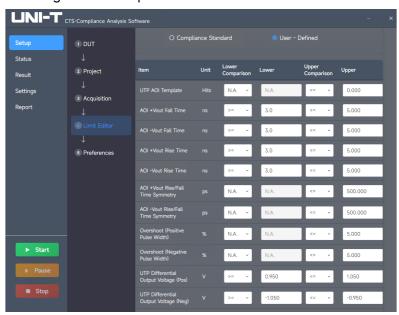
Set the input signal type and channel.



Waveform Acquisition Settings

Limit Editor:

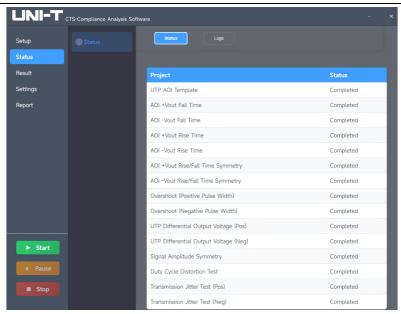
For selected test items, users can view the compliance standards in the limit editor, which can also customize the limits according to their requirements.



Limit Editor Settings

4.2 Test Status

Click the **Status** to open the menu and check the status of selected test item and the test log.

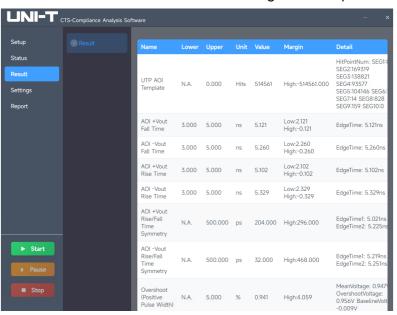


Test Status Settings

4.3 Test Results

After testing, click the **Results** to review the results of executed test items.

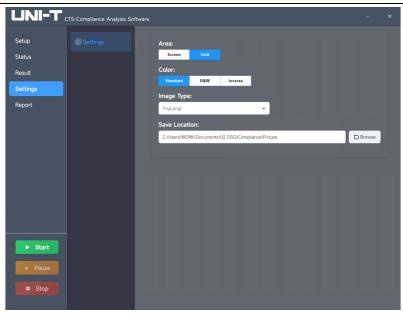
Test results table: Upper/lower reference threshold, test value, gain, description, and pass/fail test result.



Test Results Settings

4.4 Save Settings

Click the **Settings** to set screenshot capture settings, including the capture area, screenshot color, image type, and save location.

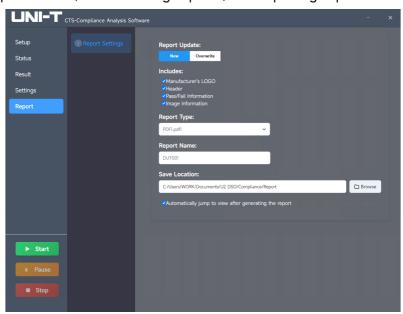


Save Settings

4.5 Test Report

Click the **Report** to open the menu and configure the settings.

Test report: Report update, report contents, report type, report name, save location, and settings for auto-incrementing report names, auto-creating reports, auto-opening reports.



Test Report Settings

After testing, a comprehensive report is generated immediately, including Pass/Fail results, data tables, and screenshots for each test.



100Base-Tx Ethernet Compliance Test Report



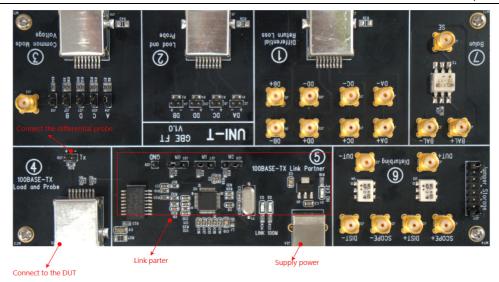
Test Name	Result	Measure Value	Pass Limit
UTP AOI Template	Pass	0Hits	Value <= 0.000
AOI +Vout Fall Time	Pass	3.981ns	3.000 <= Value <= 5.000
AOI -Vout Fall Time	Pass	3.987ns	3.000 <= Value <= 5.000
AOI +Vout Rise Time	Pass	3.919ns	3.000 <= Value <= 5.000
AOI -Vout Rise Time	Pass	3.973ns	3.000 <= Value <= 5.000
AOI +Vout Rise/Fall Symmetry	Pass	39.000ps	Value <= 500.000
AOI -Vout Rise/Fall Symmetry	Pass	33.000ps	Value <= 500.000
Overshoot(Pos)	Pass	1.173%	Value <= 5.000
Overshoot(Neg)	Pass	0.586%	Value <= 5.000
UTP +Vout Differential Output Voltage	Pass	1.018V	0.950 <= Value <= 1.050
UTP -Vout Differential Output Voltage	Pass	-1.019V	-1.050 <= Value <= -0.950
Signal Amplitude Symmetry	Pass	1.001%	0.980 <= Value <= 1.020
Duty Cycle Distortion	Pass	248.178ps	Value <= 500.000
Transmit Jitter(Pos)	Pass	0.631ns	Value <= 1.400
Transmit Jitter(Neg)	Pass	0.584ns	Value <= 1.400

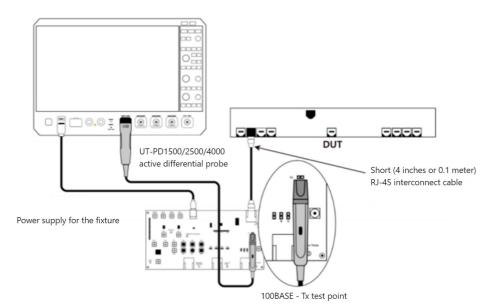
5. Test Environment Setup and Packet Transmission Control

When performing compliance testing on 100BASE-TX Ethernet, the IEEE 802.3 standard defines requirements for various test waveforms. The DUT must generate the corresponding waveforms for each test item. A packet transmission tool is software that allows the DUT to send specific test packets as required.

Induced packet transmission uses the auto-negotiation mode of 100BASE-TX. The Link Partner, built into the test fixture, automatically transmits 100Mbps idle waveforms without additional configuration. Connect the Tx (transmit) signal from the fixture's Ethernet port to the Rx (receive) terminal of the DUT. When the DUT receives the 100Mbps idle waveform, it will return the same waveform. Insert a differential probe into the two-pin header to capture the waveform and display it on the oscilloscope.

The test environment setup is shown in the figure below.





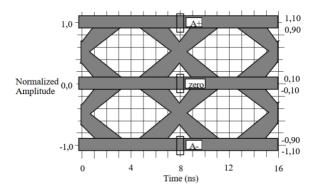
6. Compliance Test Items

6.1 AOI Template Test

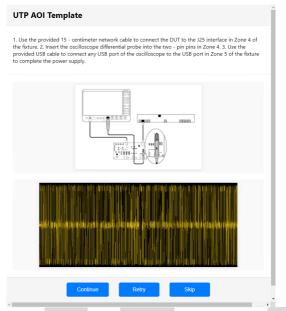
6.1.1 Calculation Method

AOI (output interface) mask test is used to verify whether transmission signals comply with industry-standard specifications, including jitter, overshoot, rise and fall times, and signal noise. The mask is defined in the annex of the ANSI X3.263 standard, which specifies a 5% geometric tolerance for the mask.

During the test, the software controls the mask and attempts to find the best match with the Ethernet eye diagram waveform. If any mask violation occurs, the test is marked as Fail. To perform this test, the DUT must transmit idle-mode waveforms encoded with MLT-3.

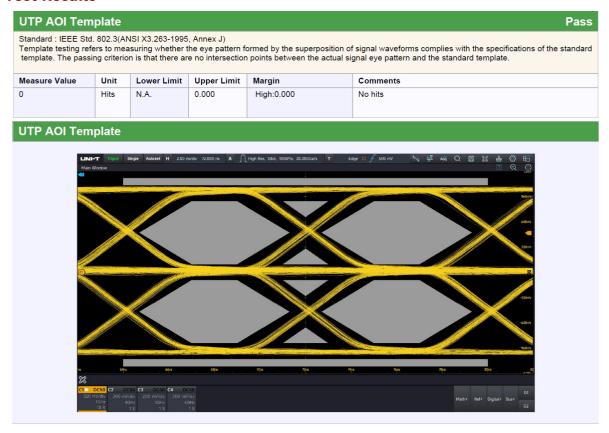


6.1.2 Test Procedure



- (1) Select AOI rise/fall time test: In **Setup** -> **Project** menu, select **AOI**.
- (2) Configure waveform acquisition: In the **Acquisition** menu, set the signal type (differential or single-ended) and the channel source.
- (3) Select comparison standard: In **Limit Editor** menu, select the desired comparison standard.
- (4) Start the test: Click Start.
- (5) Set up the test environment: Configure the test environment according to the connection diagram prompted by the software. After confirmation, click **Continue** to start the test.
- (6) Handle connection or waveform errors: If a connection or waveform error occurs, the log will display a timeout and re-display the connection diagram. Follow the prompts to correct the connection, resend the waveform, and click **Continue** to proceed.
- (7) Oscilloscope verification and testing: During the test, the oscilloscope will verify that the correct test signal is present on the selected source, configure itself to capture pulses, and measure the signal according to compliance parameters. The software will then record the results.

6.1.3 Test Results



6.2 AOI Rise/Fall Time Test

6.2.1 Calculation Method

This test measures the rise and fall times of both positive and negative pulse widths, and evaluates the symmetry between rise and fall times.

- AOI + V_{out} rise time: Measures the rise time of the positive pulse width (from 0V to + V_{out}). Threshold: 3 to 5ns.
- AOI + V_{out} fall time: Measures the fall time of the positive pulse width (from + V_{out} to 0V). Threshold: 3 to 5ns.
- AOI + V_{out} rise/fall time symmetry: The difference between the rise time and fall time of the positive pulse width must be \leq 500ps.
- AOI V_{out} rise time: Measures the rise time of the negative pulse width (from 0V to $-V_{out}$). Threshold: 3 to 5ns.
- AOI V_{out} fall time: Measures the fall time of the negative pulse width (from - V_{out} to 0V). Threshold: 3 to 5ns.
- AOI V_{out} rise/fall time symmetry: The difference between the rise time and fall time of the negative pulse width must be \leq 500ps.

AOI overall rise/fall time symmetry: The difference between the maximum and minimum rise/fall times

across all positive and negative pulse widths must be ≤ 500ps.

6.2.2 Test Procedure

- (8) Select AOI rise/fall time test: In **Setup** —> **Project** menu, select **AOI Rise/Fall Time**.
- (9) Configure waveform acquisition: In the **Acquisition** menu, set the signal type (differential or single-ended) and the channel source.
- (10) Select comparison standard: In **Limit Editor** menu, select the desired comparison standard.
- (11) Start the test: Click Start.
- (12) Set up the test environment: Configure the test environment according to the connection diagram prompted by the software. After confirmation, click **Continue** to start the test.
- (13) Handle connection or waveform errors: If a connection or waveform error occurs, the log will display a timeout and re-display the connection diagram. Follow the prompts to correct the connection, resend the waveform, and click **Continue** to proceed.
- (14) Oscilloscope verification and testing: During the test, the oscilloscope will verify that the correct test signal is present on the selected source, configure itself to capture pulses, and measure the signal according to compliance parameters. The software will then record the results.

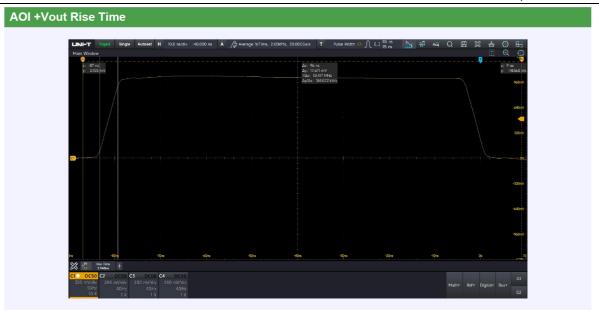
6.2.3 Test Results

AOI + Vout Rise Time

Measure the time required for the signal to rise from 0V to $+V_{out}$. The standard specifies the measurement range as 10% ($+V_{out}$) to 90% ($+V_{out}$) on the rising edge.

Calculation Method: The rise time t_{rise} is defined as the interval from the 10% (+V_{out}) to 90% (+V_{out}) on the rising edge of the positive pulse width, which must meet the standard: 3.0ns $\leq t_{rise} \leq 5.0$ ns.

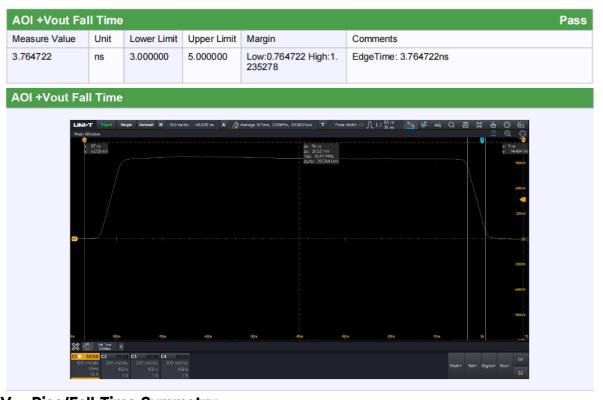
AOI +Vout Rise Time				Pass	
Measure Value	Unit	Lower Limit	Upper Limit	Margin	Comments
3.657331	ns	3.000000	5.000000	Low:0.657331 High:1. 342669	EdgeTime: 3.657331ns



AOI + Vout Fall Time

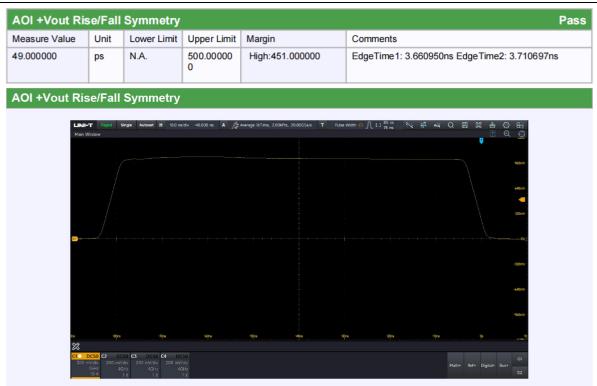
Measure the time required for the signal to fall from $+V_{out}$ to 0V. The standard specifies the measurement range as 90% ($+V_{out}$) to 10% ($+V_{out}$) on the falling edge.

Calculation Method: The fall time t_{fall} is defined as the interval from the 90% (+V_{out}) to 10% (+V_{out}) on the falling edge of the positive pulse width, which must meet the standard: 3.0ns $\leq t_{fall} \leq 5.0$ ns.



AOI + Vout Rise/Fall Time Symmetry

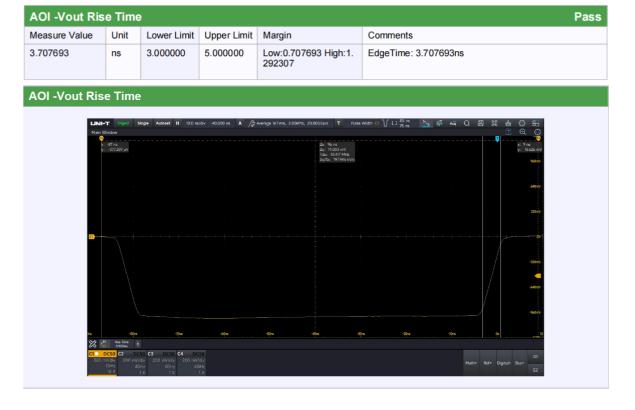
Measure the difference between the rise time and fall time of the positive pulse width, which must meet the standard: ≤ 500 ps.



AOI -Vout Rise Time

Measure the time required for the signal to rise from $-V_{out}$ to 0V. The standard specifies the measurement range as 10% ($-V_{out}$) to 90% ($-V_{out}$) on the rising edge.

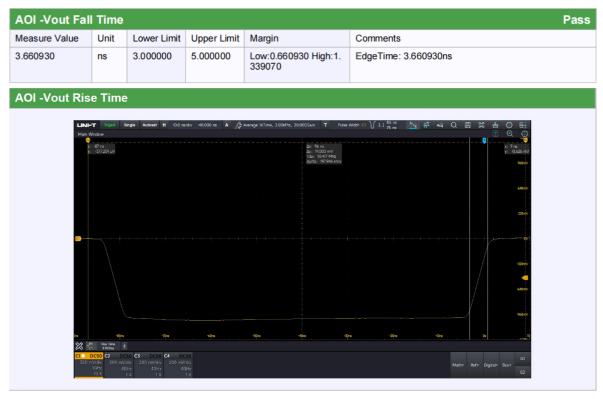
Calculation Method: The rise time t_{rise} is defined as the interval from the 10% (- V_{out}) to 90% (- V_{out}) on the rising edge of the negative pulse width, which must meet the standard: 3.0ns $\leq t_{rise} \leq 5.0$ ns.



AOI -Vout Fall Time

Measure the time required for the signal to fall fom 0V to $-V_{out}$. The standard specifies the measurement range as 90% ($-V_{out}$) to 10% ($-V_{out}$) on the falling edge.

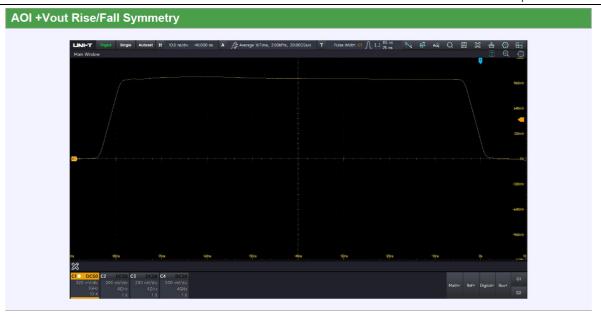
Calculation Method: The fall time t_{fall} is defined as the interval from the 90% (- V_{out}) to 10% (- V_{out}) on the falling edge of the negative pulse width, which must meet the standard: 3.0ns $\leq t_{fall} \leq 5.0$ ns.



AOI -Vout Rise/Fall Time Symmetry

Measure the difference between the rise time and fall time of the negative pulse width, which must meet the standard: ≤ 500ps.





6.3 Overshoot Test

6.3.1 Calculation Method

The overshoot test is used to verify whether the waveform overshoot of the DUT is within the specified compliance limits. Separate tests are performed for positive and negative pulses. If the overshoot is less than 5% of the average differential output voltage, the result is Pass; otherwise, it is Fail.

6.3.2 Test Procedure

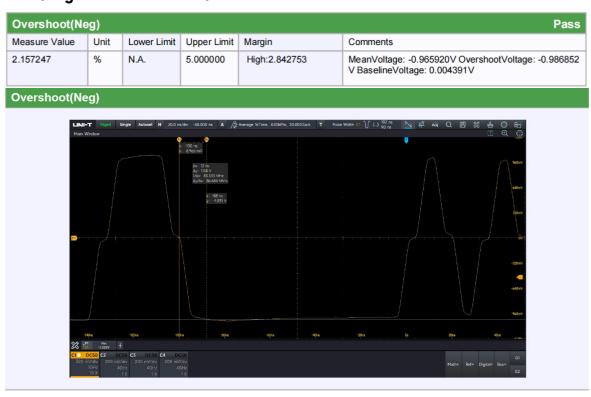
- Select overshoot test: In Setup —> Project menu, select Overshoot.
- (2) Configure waveform acquisition: In the **Acquisition** menu, set the signal type (differential or single-ended) and the channel source.
- (3) Select comparison standard: In **Limit Editor** menu, select the desired comparison standard.
- (4) Click Start .
- (5) Set up the test environment: Configure the test environment according to the connection diagram prompted by the software. After confirmation, click **Continue** to start the test.
- (6) Handle connection or waveform errors: If a connection or waveform error occurs, the log will display a timeout and re-display the connection diagram. Follow the prompts to correct the connection, resend the waveform, and click **Continue** to proceed.
- (7) Oscilloscope verification and testing: During the test, the oscilloscope will verify that the correct test signal is present on the selected source, configure itself to capture pulses, and measure the signal according to compliance parameters. The software will then record the results.

6.3.3 Test Results

Overshoot (Positive Pulse Width)



Overshoot (Negative Pulse Width)



6.4 Peak Differential Voltage Test

6.4.1 Calculation Method

The peak differential voltage test includes differential output voltage amplitude test and signal amplitude symmetry test.

Differential output voltage amplitude: This test is used to verify whether the differential output voltage of the DUT is within the compliance limits. The test measures the average amplitudes of the positive and negative pulses in the Ethernet differential output waveform. The absolute voltage amplitude shall be within 950mV to 1050mV.

Signal amplitude symmetry: This test is used to calculate the symmetry of the DUT's differential output by calculating the ratio between the average positive amplitude and the average negative amplitude. The absolute value of this ratio shall be within 0.98 to 1.02.

6.4.2 Test Procedure

- (1) Select peak differential voltage test: In **Setup** —> **Project** menu, select **Peak Differential Voltage**.
- (2) Configure waveform acquisition: In the **Acquisition** menu, set the signal type (differential or single-ended) and the channel source.
- (3) Select comparison standard: In **Limit Editor** menu, select the desired comparison standard.
- (4) Start the test: Click **Start**.
- (5) Set up the test environment: Configure the test environment according to the connection diagram prompted by the software. After confirmation, click **Continue** to start the test.
- (6) Handle connection or waveform errors: If a connection or waveform error occurs, the log will display a timeout and re-display the connection diagram. Follow the prompts to correct the connection, resend the waveform, and click **Continue** to proceed.
- (7) Oscilloscope verification and testing: During the test, the oscilloscope will verify that the correct test signal is present on the selected source, configure itself to capture pulses, and measure the signal according to compliance parameters. The software will then record the results.

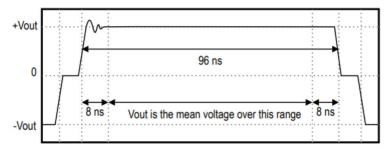
6.4.3 Test Results

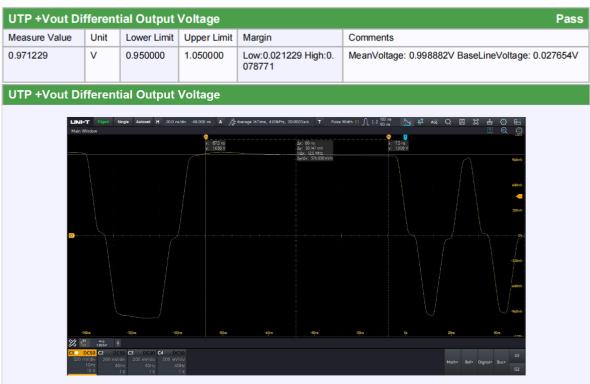
UTP Differential Output Voltage (Pos)

The measurement method for the unshielded twisted pair (UTP) differential output voltage (positive pulse, $+V_{out}$) is as follows:

After the signal transitions from 0V to $+V_{out}$, capture the waveform within the time window from 8 ns after the 50% point of the rising edge to 8ns before the 50% point of the falling edge. The average voltage is then calculated over this interval.

The test is considered Pass if the result satisfies $950\text{mV} \le V_{\text{out}} \le 1050\text{mV}$; otherwise, it is considered Fail.





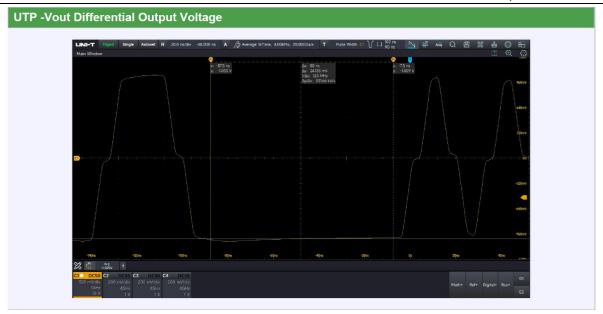
TP Differential Output Voltage (Neg)

The measurement method for the unshielded twisted pair (UTP) differential output voltage (negative pulse, -V_{out}) is as follows:

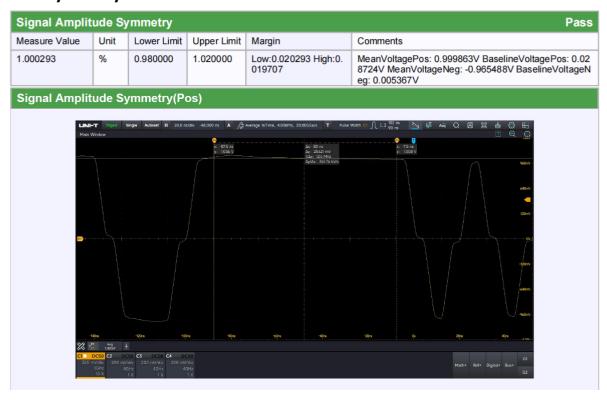
After the signal transitions from 0V to $-V_{out}$, capture the waveform within the time window from 8ns after the 50% point of the falling edge to 8ns before the 50% point of the rising edge. The average voltage is then calculated over this interval.

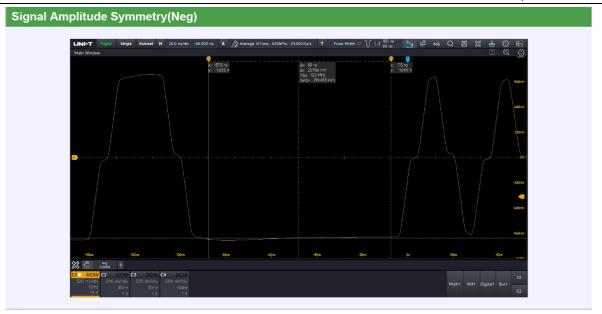
The test is considered Pass if the result satisfies $950\text{mV} \le V_{\text{out}} \le 1050\text{mV}$; otherwise, it is considered Fail.





Amplitude Symmetry





6.5 Jitter/Duty Ratio Distortion Test

6.5.1 Calculation Method

Transmitter Jitter Test

The transmitter jitter test measures peak-to-peak jitter in accordance with the limits specified in Clause 9.1.9 of ANSI X3.263-1995. This test evaluates the total transmission jitter, which is primarily caused by duty cycle distortion and baseline drift. The method involves constructing a histogram of waveform crossing points and performing cumulative statistical analysis. For MLT-3 signals used in 100BASE-Tx, jitter must be measured at both the upper and lower voltage crossing points.

Transmitter Jitter (Positive Pulse Width)

According to the standard, the maximum jitter shall not exceed 1.4ns. To perform this test, the DUT must transmit idle-mode waveforms encoded with MLT-3. For transmitter jitter testing, the specification does not require calculating the number of edges or Unit Intervals (UIs) for total jitter. Instead, between 40,000 and 100,000 UIs are acquired. The differences between the actual edge positions of the positive pulse widths and the corresponding ideal clock positions are measured. The peak-to-peak jitter is then calculated as the difference between the maximum and minimum deviations.

Transmitter Jitter (Negative Pulse Width)

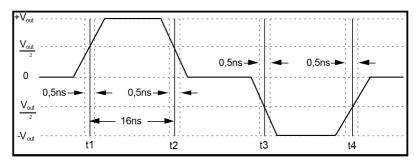
The test procedure is the same as for positive pulse widths (mentioned above), except that measurements are taken at the edges of the negative pulse widths.

Duty Ratio Distortion Test

The duty ratio distortion test is performed in accordance with the limits specified in Clause 9.1.8 of ANSI X3.263-1995. This test evaluates signal symmetry by measuring the difference between the durations of the high-level and low-level signals. Pass/fail determination is based on the maximum deviation between

the actual crossing point width and the theoretical value.

For this test, the times at which the captured average waveform crosses the $V_{out}/2$ voltage level are measured.



The calculation of Tx (x = 1, 2, 3, 4, 5, 6) is defined as follows:

- \blacksquare T1 = t₁ t₀ 16ns
- \blacksquare T2 = t_2 t_1 16ns
- \blacksquare T3 = t₃ t₂ 16ns
- \blacksquare T4 = t₂ t₀ 32ns
- T5 = t_3 t_1 32ns
- \blacksquare T6 = t_3 t_0 48ns

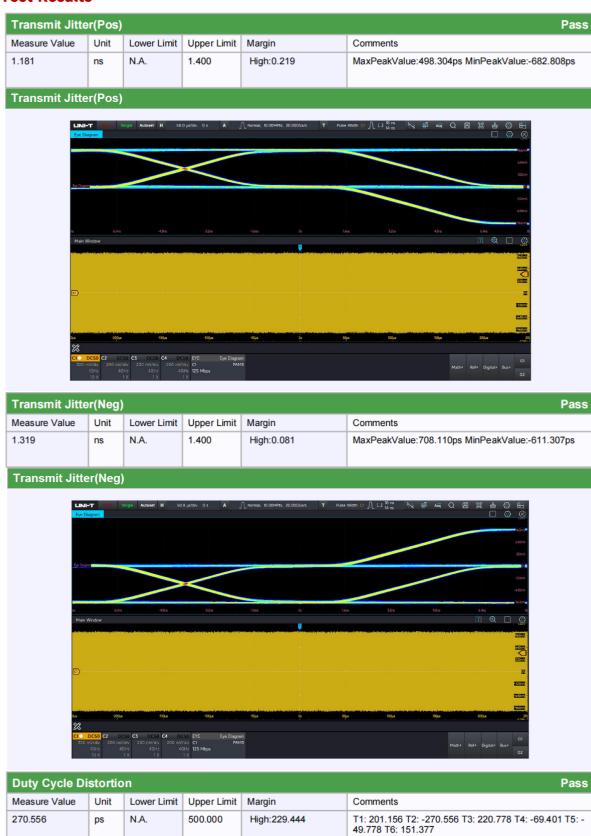
Peak-to-peak duty ratio distortion= Max absolute value (T₁, T₂, T₃, T₄, T₅, T₆)

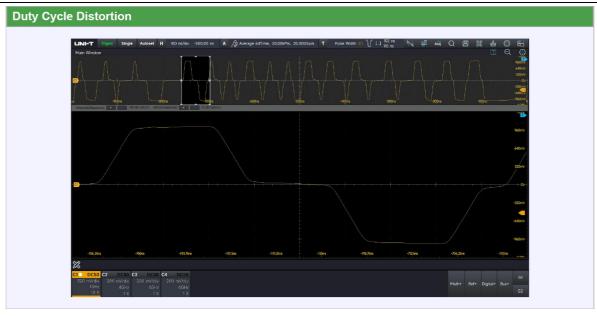
The standard requires the maximum peak-to-peak duty ratio distortion must be less than 500ps.

6.5.2 Test Procedure

- (1) Select jitter/duty ratio distortion: In **Setup** —> **Project** menu, select **Jitter/Duty Ratio Distortion**.
- (2) Configure waveform acquisition: In the **Acquisition** menu, set the signal type (differential or single-ended) and the channel source.
- (3) Select comparison standard: In **Limit Editor** menu, select the desired comparison standard.
- (4) Start the test: Click Start.
- (5) Set up the test environment: Configure the test environment according to the connection diagram prompted by the software. After confirmation, click **Continue** to start the test.
- (6) Handle connection or waveform errors: If a connection or waveform error occurs, the log will display a timeout and re-display the connection diagram. Follow the prompts to correct the connection, resend the waveform, and click **Continue** to proceed.
- (7) Oscilloscope verification and testing: During the test, the oscilloscope will verify that the correct test signal is present on the selected source, configure itself to capture pulses, and measure the signal according to compliance parameters. The software will then record the results.

6.5.3 Test Results





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