

Test Report for 100Base-TX

Time: 11:08:09

Device ID : K18X001T00

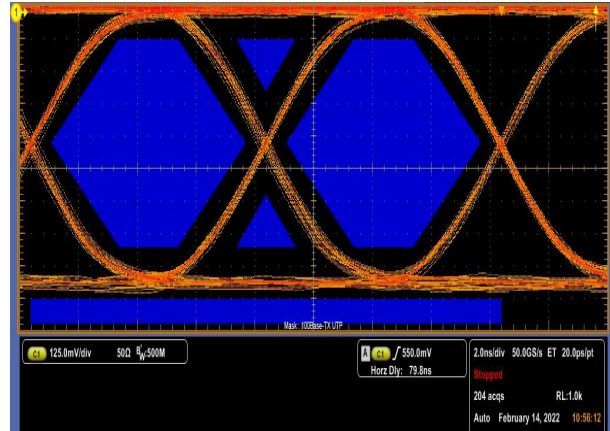
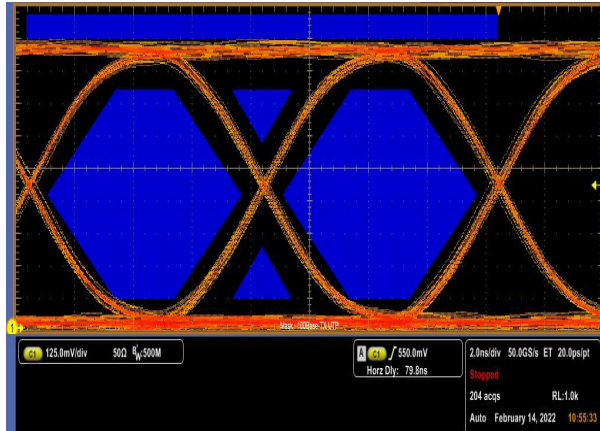
Device Description Not Available

Port ID : Lan

Test	Spec. Range	Measured Value	Result
AOI Template	Fit the template		Pass
Output Voltage (+Vout)	950mV to 1050mV	1027.1mV	Pass
Output Voltage (-Vout)	-950mV to -1050mV	-1036.6mV	Pass
Amplitude Symmetry	0.98 to 1.02	0.989	Pass
Rise Time(+ve)	3ns to 5ns	4.67ns	Pass
Rise Time(-ve)	3ns to 5ns	4.44ns	Pass
Fall Time(+ve)	3ns to 5ns	4.68ns	Pass
Fall Time(-ve)	3ns to 5ns	4.78ns	Pass
Rise/Fall Symmetry(+ve)	<500ps	13.5ps	Pass
Rise/Fall Symmetry(-ve)	<500ps	341ps	Pass
Overshoot(+ve)	<5%	0.00%	Pass
Overshoot(-ve)	<5%	0.01%	Pass
Transmit Jitter(+ve)	<1.4ns	810ps	Pass
Transmit Jitter(-ve)	<1.4ns	870ps	Pass
Distortion (Duty Cycle)	<500ps(±250ps)	300ps	Pass
Transmitter Return Loss			Not Available
Receiver Return Loss			Not Available

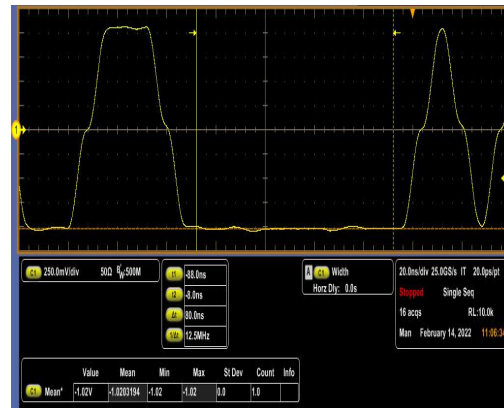
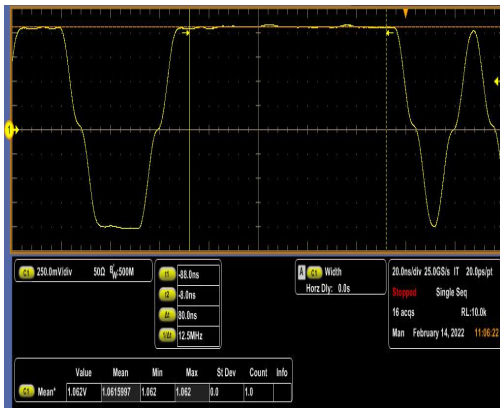
Application Version : 3.2.10.35

ANSI X3.263-1995: Annex J AOI Template



AOI Template Result :
Pass

ANSI X.3.263-1995 : 9.1.2.2 Differential Output Voltage

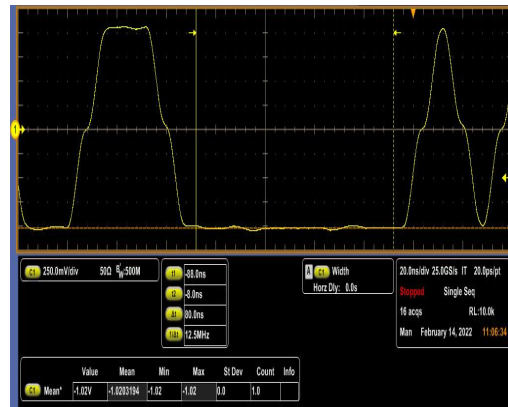


Positive Amplitude(+Vout) : 1027.1mV	Negative Amplitude(-Vout) : -1036.6mV
Baseline(+ve) : 34.5mV	Baseline(-ve) : 16.3mV
Spec Range : 950mV to 1050mV	Spec Range : -950mV to -1050mV
Output Voltage(+Vout) Result : Pass	Output Voltage(-Vout) Result : Pass

Differential Output Voltage Result : Pass

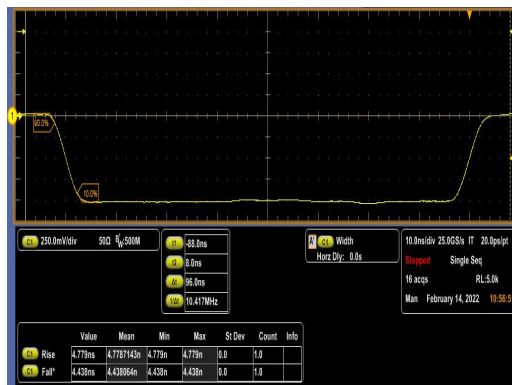
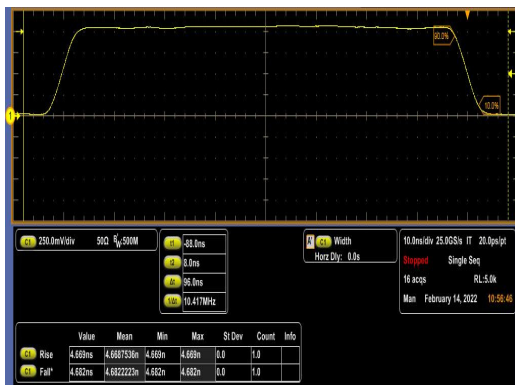
NOTE: Amplitude values are corrected for Baseline

ANSI X3.263-1995: 9.1.4 Signal Amplitude Symmetry



Amplitude Symmetry	0.989
Spec Range: 0.98 to 1.02	
Amplitude Symmetry Result	Pass

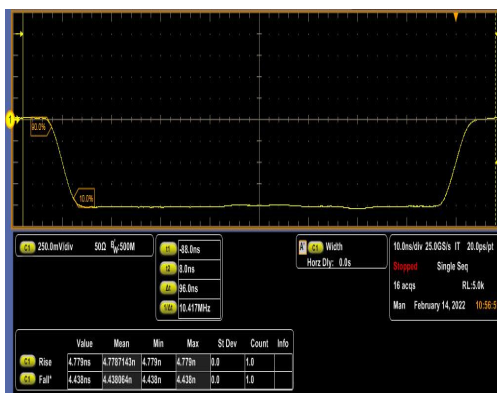
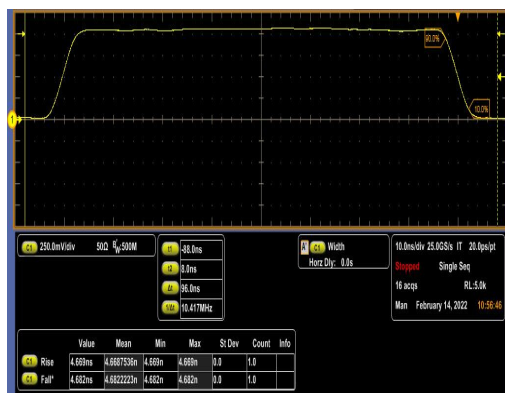
ANSI X3.263-1995: 9.1.6 Rise Time



Rise Time(+ve) : 4.67ns	Rise Time(-ve) : 4.44ns
Spec Range: 3ns to 5ns	Spec Range: 3ns to 5ns
Rise Time(+ve) Result : Pass	Rise Time(-ve) Result : Pass

Rise Time Test Result : Pass

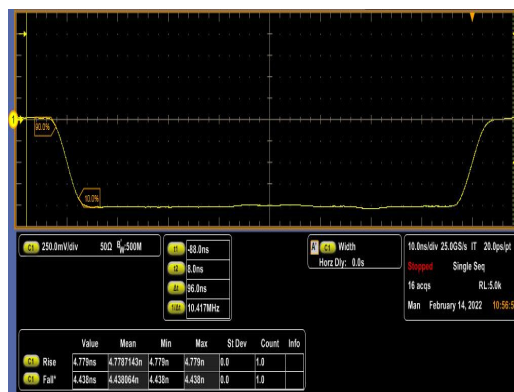
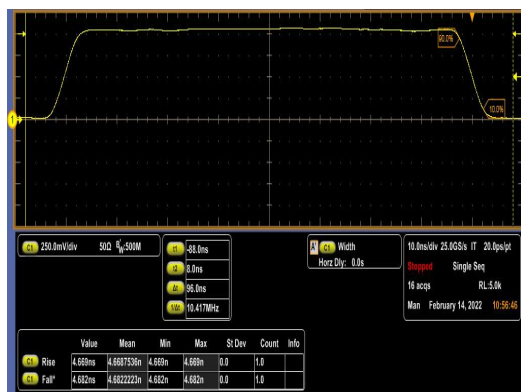
ANSI X3.263-1995: 9.1.6 Fall Time



Fall Time(+ve) :	4.68ns	Fall Time(-ve) :	4.78ns
Spec Range: 3ns to 5ns		Spec Range: 3ns to 5ns	
Fall Time(+ve) Result :	Pass	Fall Time(-ve) Result :	Pass

Fall Time Test Result : Pass

ANSI X3.263-1995: 9.1.6 Rise Fall Symmetry

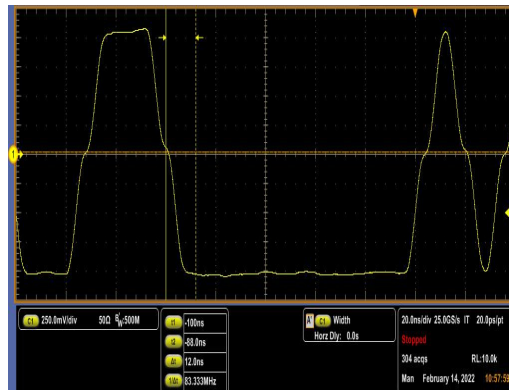


Rise/Fall Symmetry(+ve) :	13.5ps	Rise/Fall Symmetry(-ve) :	341ps
Spec Range: <500ps		Spec Range: <500ps	
Rise/Fall Symmetry(+ve) Result	Pass	Rise/Fall Symmetry(-ve) Result	Pass

Rise/Fall Symmetry(Max-Min) : 341ps

Rise/Fall Symmetry Result : Pass

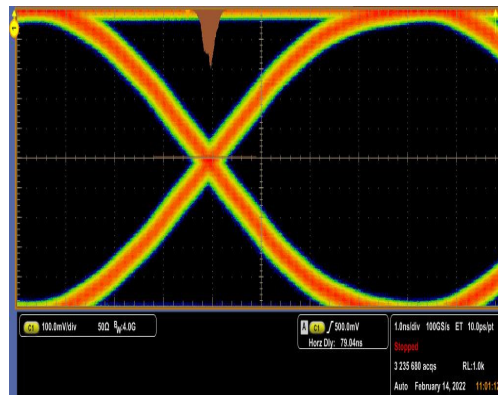
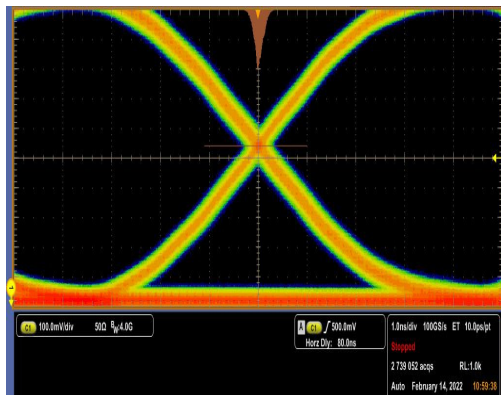
ANSI X3.263-1995: 9.1.3 Waveform Overshoot



Overshoot(+ve) :	0.00%	Overshoot(-ve)	0.01%
Spec Range: <5 %		Spec Range: <5 %	
Overshoot(+ve) Result	Pass	Overshoot(-ve) Result	Pass

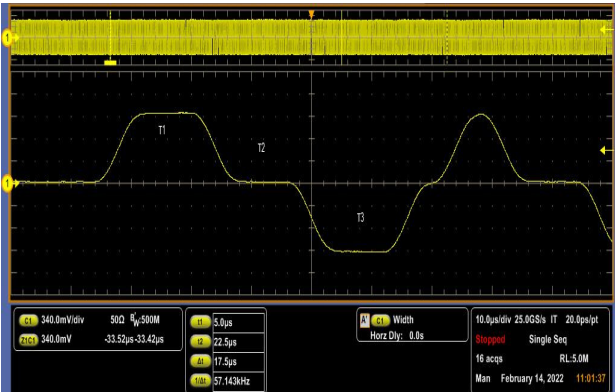
Waveform Overshoot Test Results : Pass

ANSI X3.263-1995: 9.1.9 Transmit Jitter



Transmit Jitter(+ve) :	810ps	Transmit Jitter(-ve) :	870ps
Spec Range: <1.4ns		Spec Range: <1.4ns	
Transmit Jitter(+ve) Result	Pass	Transmit Jitter(-ve) Result	Pass

ANSI X3.263-1995: 9.1.8 Distortion(Duty Cycle)



Distortion(Duty Cycle) : 300ps

Spec Range: <500ps(+/-250ps)

Distortion(Duty Cycle) Result :

Pass

T1 = 300ps T2 = 200ps

T3 = 80.0ps T4 = 100ps

T5 = 120ps T6 = 180ps

ANSI X3.263-1995: 9.1.5 Transmitter Return Loss

Not Available

Frequency	Spec. Value	Measured Value	Result
		Not Available	
1 MHz	-16.00dB	Not Available	
10 MHz	-16.00dB	Not Available	
20 MHz	-16.00dB	Not Available	
30 MHz	-16.00dB	Not Available	
40 MHz	-13.50dB	Not Available	
50 MHz	-11.56dB	Not Available	
60 MHz	-9.97dB	Not Available	
70 MHz	-10.00dB	Not Available	
80 MHz	-10.00dB	Not Available	

Transmitter Return Loss Result Not Available

ANSI X3.263-1995: 9.1.5 Receiver Return Loss

Not Available

Frequency	Spec. Value	Measured Value	Result
		Not Available	
1 MHz	-16.00dB	Not Available	
10 MHz	-16.00dB	Not Available	
20 MHz	-16.00dB	Not Available	
30 MHz	-16.00dB	Not Available	
40 MHz	-13.50dB	Not Available	
50 MHz	-11.56dB	Not Available	
60 MHz	-9.97dB	Not Available	
70 MHz	-10.00dB	Not Available	
80 MHz	-10.00dB	Not Available	

Receiver Return Loss Result Not Available