

Test Report for 100Base-TX

Time: 08:04:13

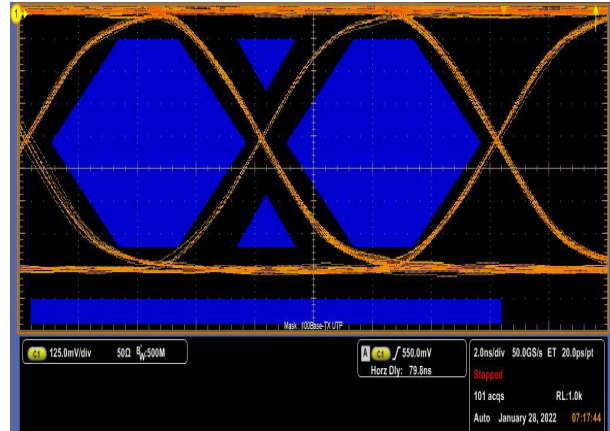
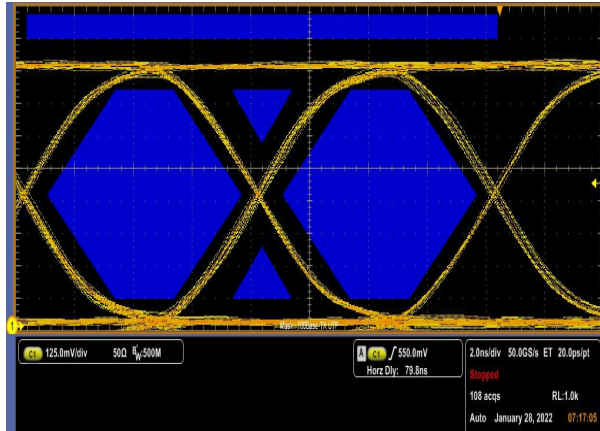
Device ID : T99X171T00

Device Description Not Available

Port ID : Lan

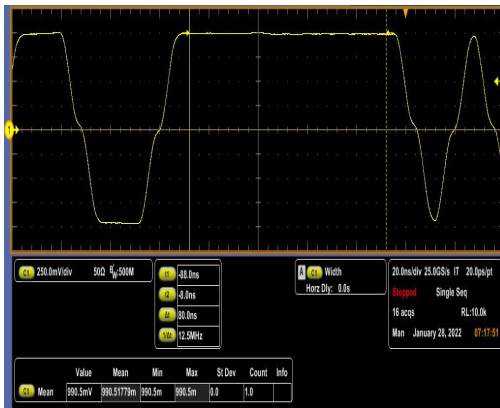
Test	Spec. Range	Measured Value	Result
AOI Template	Fit the template		Pass
Output Voltage (+Vout)	950mV to 1050mV	968.1mV	Pass
Output Voltage (-Vout)	-950mV to -1050mV	-981.7mV	Pass
Amplitude Symmetry	0.98 to 1.02	0.986	Pass
Rise Time(+ve)	3ns to 5ns	4.86ns	Pass
Rise Time(-ve)	3ns to 5ns	4.82ns	Pass
Fall Time(+ve)	3ns to 5ns	4.8ns	Pass
Fall Time(-ve)	3ns to 5ns	4.84ns	Pass
Rise/Fall Symmetry(+ve)	<500ps	162ps	Pass
Rise/Fall Symmetry(-ve)	<500ps	41.0ps	Pass
Overshoot(+ve)	<5%	0.48%	Pass
Overshoot(-ve)	<5%	0.00%	Pass
Transmit Jitter(+ve)	<1.4ns	650ps	Pass
Transmit Jitter(-ve)	<1.4ns	700ps	Pass
Distortion (Duty Cycle)	<500ps(±250ps)	160ps	Pass
Transmitter Return Loss			Not Available
Receiver Return Loss			Not Available

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) : 968.1mV	Negative Amplitude(-Vout) : -981.7mV
Baseline(+ve) : 22.4mV	Baseline(-ve) : 14.7mV
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

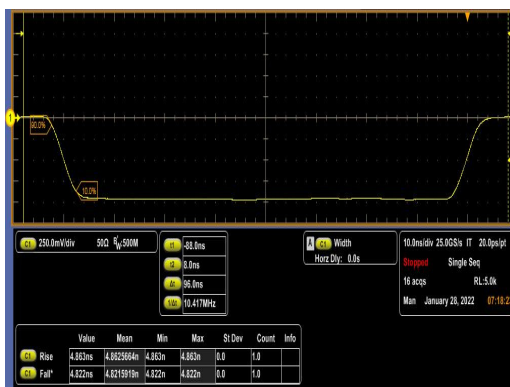
NOTE: Amplitude values are corrected for Baseline

ANSI X3.263-1995: 9.1.4 Signal Amplitude Symmetry



Amplitude Symmetry	0.986
Spec Range: 0.98 to 1.02	
Amplitude Symmetry Result	Pass

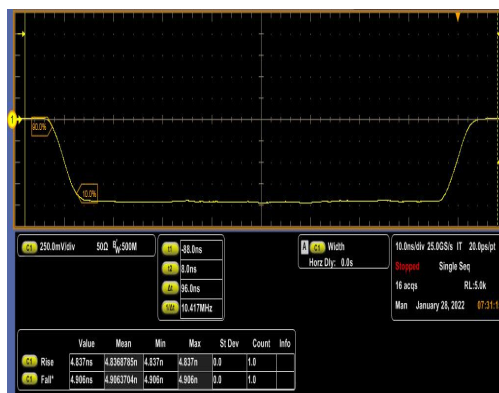
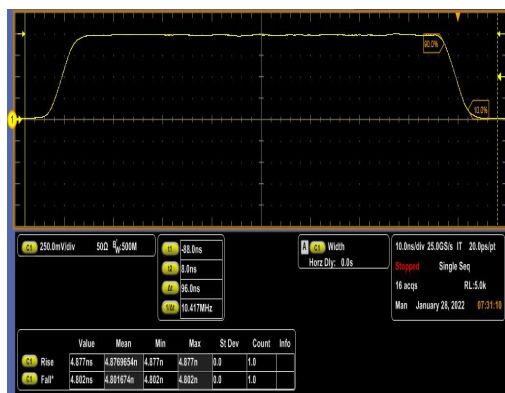
ANSI X3.263-1995: 9.1.6 Rise Time



Rise Time(+ve) :	4.86ns	Rise Time(-ve) :	4.82ns
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

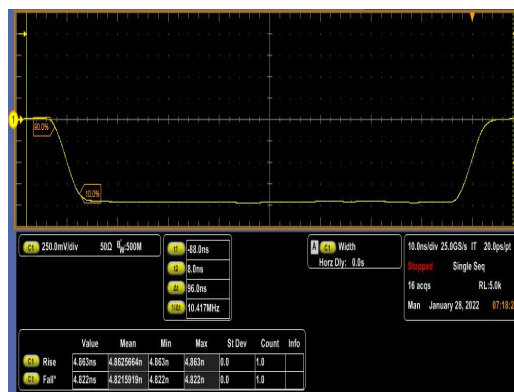
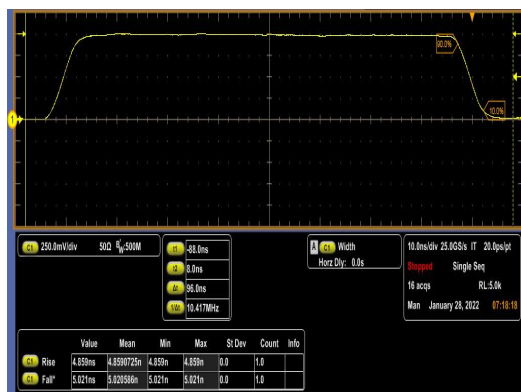
ANSI X3.263-1995: 9.1.6 Fall Time



Fall Time(+ve) :	4.8ns	Fall Time(-ve) :	4.84ns
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) :	162ps	Rise/Fall Symmetry(-ve) :	41.0ps
Spec Range: <500ps		Spec Range: <500ps	
Rise/Fall Symmetry(+ve) Result	Pass	Rise/Fall Symmetry(-ve) Result	Pass

Rise/Fall Symmetry(Max-Min) : 199ps

Rise/Fall Symmetry Result : Pass

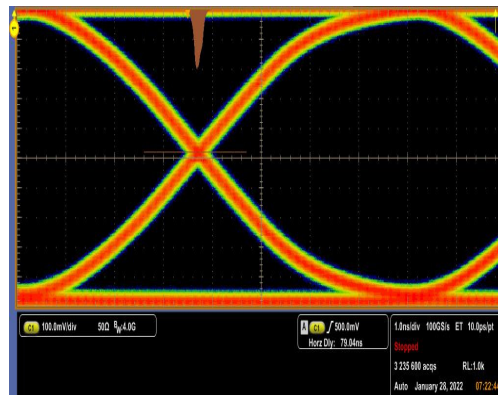
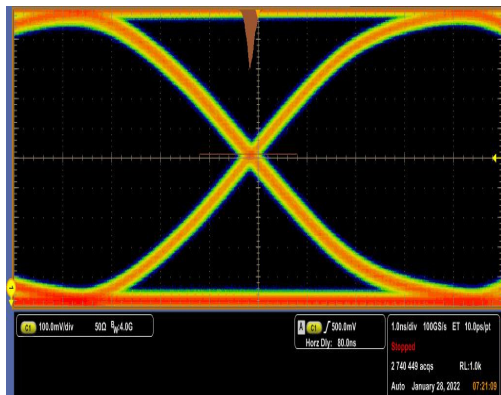
ANSI X3.263-1995: 9.1.3 Waveform Overshoot



Overshoot(+ve) :	0.48%	Overshoot(-ve)	0.00%
Spec Range: <5 %		Spec Range: <5 %	
Overshoot(+ve) Result	Pass	Overshoot(-ve) Result	Pass

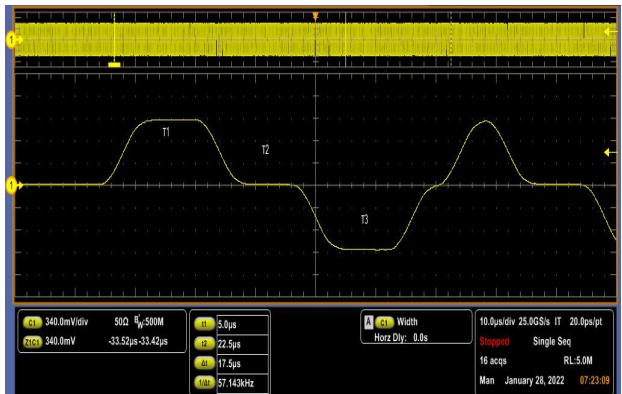
Waveform Overshoot Test Results : Pass

ANSI X3.263-1995: 9.1.9 Transmit Jitter



Transmit Jitter(+ve) :	650ps	Transmit Jitter(-ve) :	700ps
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) : 160ps

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

Distortion(Duty Cycle) Result :

Pass

T1 = 160ps T2 = 140ps

T3 = 140ps T4 = 20.0ps

T5 = 2.4zs T6 = 160ps

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