

Test Report for 100Base-TX

Time: 15:49:05

Device ID : DM9162E4_Bench Board_#1

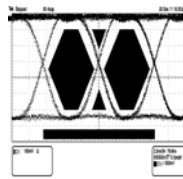
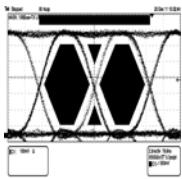
Device Description : DM9162E4_1150NS_CC7L08.1T4

Port ID : NO#1

Test	Spec. Range	Measured Value	Result
AOI Template	Fit the template		Pass
Output Voltage (+Vout)	950mV to1050mV	1005.8mV	Pass
Output Voltage (-Vout)	-950mV to -1050mV	-1000.3mV	Pass
Amplitude Symmetry	0.98 to 1.02	1.005	Pass
Rise Time(+ve)	3ns to 5ns	3.69ns	Pass
Rise Time(-ve)	3ns to 5ns	3.82ns	Pass
Fall Time(+ve)	3ns to 5ns	3.58ns	Pass
Fall Time(-ve)	3ns to 5ns	3.66ns	Pass
Rise/Fall Symmetry(+ve)	<500ps	104ps	Pass
Rise/Fall Symmetry(-ve)	<500ps	157ps	Pass
Overshoot(+ve)	<5%	1.16%	Pass
Overshoot(-ve)	<5%	0.70%	Pass
Transmit Jitter(+ve)	<1.4ns	680ps	Pass
Transmit Jitter(-ve)	<1.4ns	600ps	Pass
Distortion (Duty Cycle)	<500ps(\pm 250ps)	467ps	Pass
Transmitter Return Loss			Not Available
Receiver Return Loss			Not Available

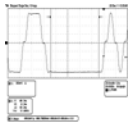
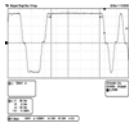
Application Version : 3.2.3 Build 1

ANSI X3.263-1995: Annex J AOI Template



AOI Template Result :
Pass

ANSI X.3.263-1995 : 9.1.2.2 Differential Output Voltage

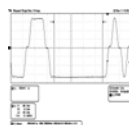
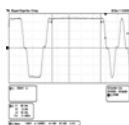


Positive Amplitude(+Vout) : 1005.8mV	Negative Amplitude(-Vout) : -1000.3mV
Baseline(+ve) : Not Available	Baseline(-ve) : Not Available
Spec Range : 950mV to 1050mV	Spec Range : -950mV to -1050mV
Output Voltage(+Vout) Result : Pass	Output Voltage(-Vout) Result : Pass

Differential Output Voltage Result : Pass

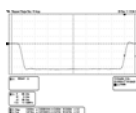
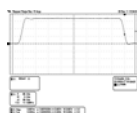
NOTE: Amplitude values are corrected for Baseline voltage

ANSI X3.263-1995: 9.1.4 Signal Amplitude Symmetry



Amplitude Symmetry : 1.005
Spec Range: 0.98 to 1.02
Amplitude Symmetry Result : Pass

ANSI X3.263-1995: 9.1.6 Rise Time



Rise Time(+ve) : 3.69ns	Rise Time(-ve) : 3.82ns
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

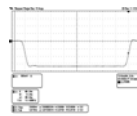
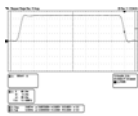
ANSI X3.263-1995: 9.1.6 Fall Time



Fall Time(+ve) : 3.58ns	Fall Time(-ve) : 3.66ns
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

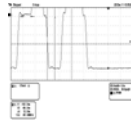
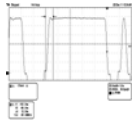


Rise/Fall Symmetry(+ve) : 104ps	Rise/Fall Symmetry(-ve) : 157ps
Spec Range: <500ps	Spec Range: <500ps
Rise/Fall Symmetry(+ve) Result : Pass	Rise/Fall Symmetry(-ve) Result : Pass

Rise/Fall Symmetry(Max-Min) : 233ps

Rise/Fall Symmetry Result : Pass

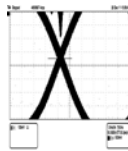
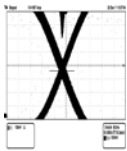
ANSI X3.263-1995: 9.1.3 Waveform Overshoot



Overshoot(+ve) : 1.16%	Overshoot(-ve) : 0.70%
Spec Range: <5%	Spec Range: <5%
Overshoot(+ve) Result : Pass	Overshoot(-ve) Result : Pass

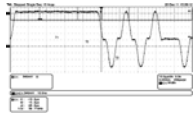
Waveform Overshoot Test Results : Pass

ANSI X3.263-1995: 9.1.9 Transmit Jitter



Transmit Jitter(+ve) : 680ps	Transmit Jitter(-ve) : 600ps
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) : 467ps
Spec Range: <500ps(+/-250ps)
Distortion(Duty Cycle) Result : Pass T1 = 400ps T2 = 467ps T3 = 467ps

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