

Test Report for 1000BaseT

Time: 10:32:02

Device ID : Not Available

Device Description Not Available

Device Pair ID : Not Available

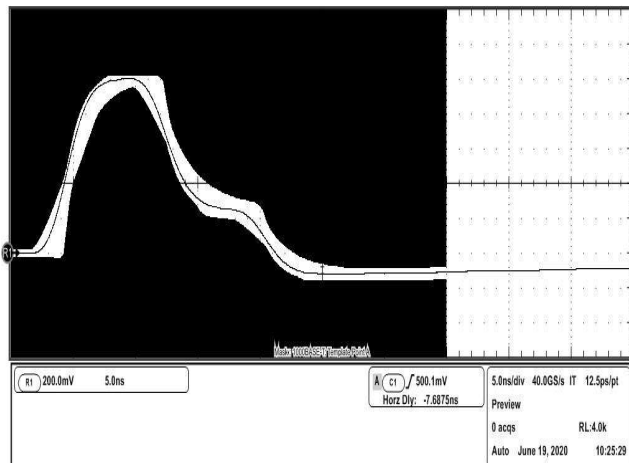
Port ID : Not Available

TEST	Spec. Range	Measured Value	Result
Template Test Point A	Fit the template		Pass
Template Test Point B	Fit the template		Pass
Template Test Point C	Fit the template		Pass
Template Test Point D	Fit the template		Pass
Template Test Point F	Fit the template		Pass
Template Test Point H	Fit the template		Pass
Peak Volt Point A	670mV to 820mV	573.5mV	Fail
Peak Volt Point B	670mV to 820mV	575.4mV	Fail
%Diff A and B	<1%	0.16%	Pass
Peak Volt % Diff C	<2%	0.39%	Pass
Peak Volt %Diff D	<2%	1.21%	Pass
Droop Point G	>73.1%	Not Available	Not Available
Droop Point J	>73.1%	Not Available	Not Available
Jitter Master Filtered	<0.3ns	Not Available	Not Available
Jitter Master Unfiltered (Histogram Method)	<1.4ns	Not Available	Not Available
Jitter Master Unfiltered (TIE Method)	<1.4ns	Not Available	Not Available
Jitter Slave Filtered	Not Available	Not Available	Not Available
Jitter Slave Unfiltered (Histogram Method)	<1.4ns	Not Available	Not Available
Jitter Slave Unfiltered (TIE Method)	<1.4ns	Not Available	Not Available
Jitter Master Filtered (NO TX_TCLK ACCESS)	<0.3ns	Not Available	Not Available
Jitter Master Unfiltered (Histogram Method) (NO TX_TCLK ACCESS)	<1.4ns	Not Available	Not Available

Application Version : 3.2.10.35

TEST	Spec. Range	Measured Value	Result
Jitter Master Unfiltered (TIE Method) (NO TX_TCLKACCESS)	<1.4ns	Not Available	Not Available
Jitter Slave Filtered (NO TX_TCLKACCESS)	<0.4ns	Not Available	Not Available
Jitter Slave Unfiltered (Histogram Method) (NO TX_TCLKACCESS)	<1.4ns	Not Available	Not Available
Jitter Slave Unfiltered (TIE Method) (NO TX_TCLKACCESS)	<1.4ns	Not Available	Not Available
Transmitter Distortion	<10mV	Not Available	Not Available
Common-mode output Voltage	<50mV	Not Available	Not Available
Return Loss			Not Available

IEEE Std 802.3ab, Sec 40.6.1.2.3: 1000Base-T Differential output template point A

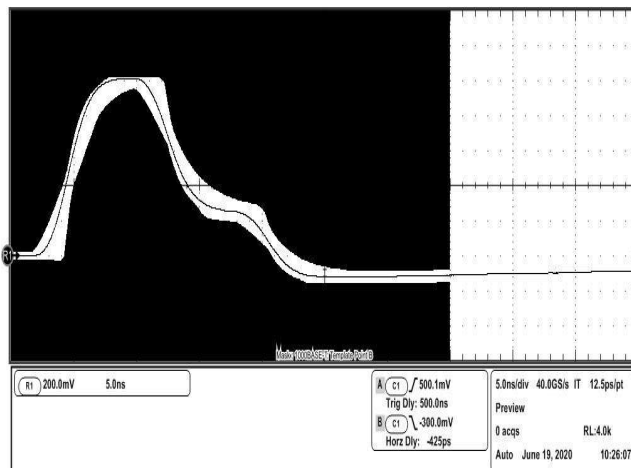


Spec Range: Fit the template

Template Point A Test Result :

Pass

IEEE Std 802.3ab, Sec 40.6.1.2.3: 1000Base-T Differential output template point B

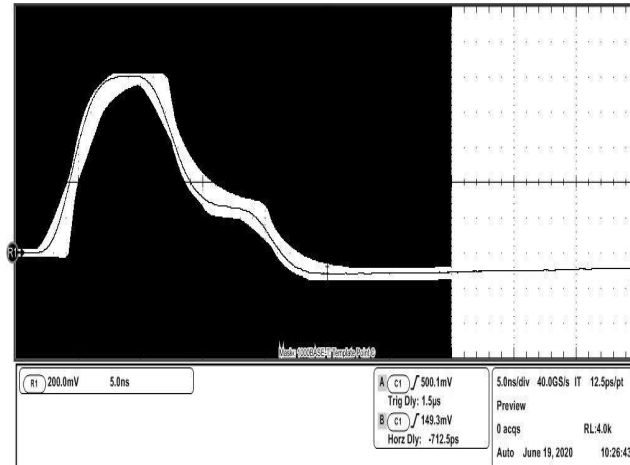


Spec Range: Fit the template

Template Point B Test Result :

Pass

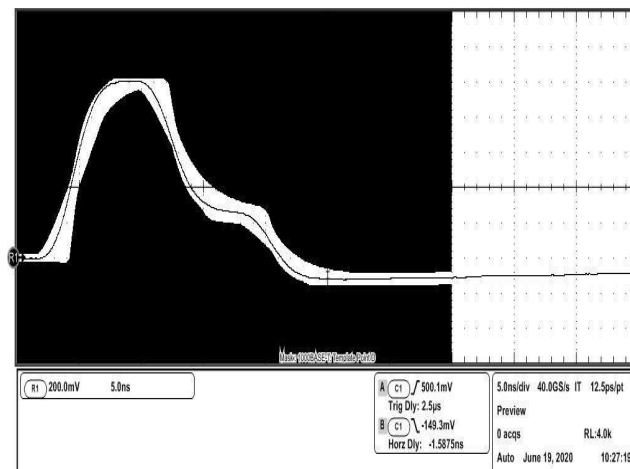
IEEE Std 802.3ab, Sec 40.6.1.2.3: 1000Base-T Differential output template point C



Spec Range: Fit the template

Template Point C Test Result :
Pass

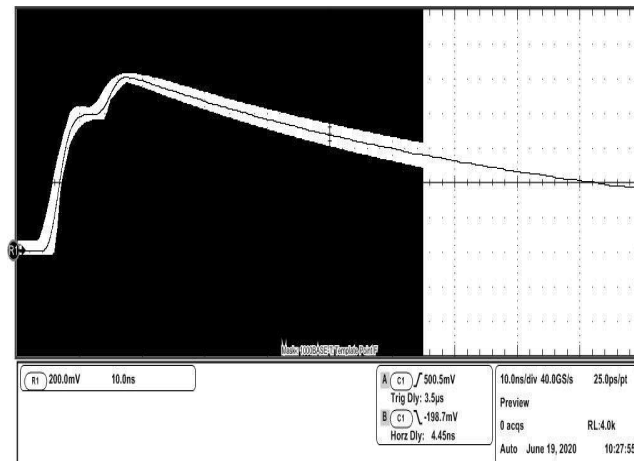
IEEE Std 802.3ab, Sec 40.6.1.2.3: 1000Base-T Differential output template point D



Spec Range: Fit the template

Template Point D Test Result :
Pass

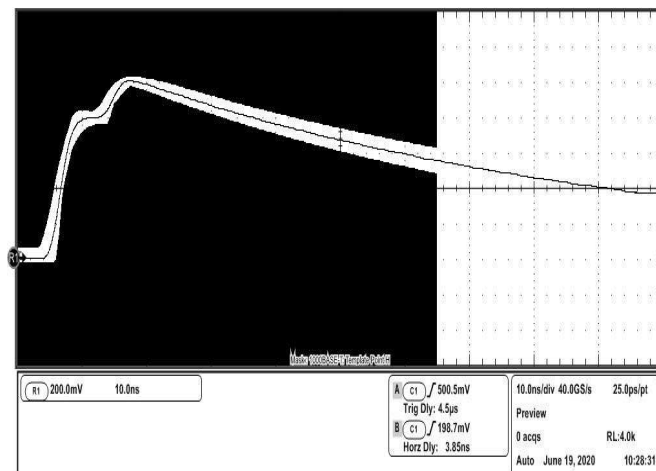
IEEE Std 802.3ab, Sec 40.6.1.2.3: 1000Base-T Differential output template point F



Spec Range: Fit the template

Template Point F Test Result :
Pass

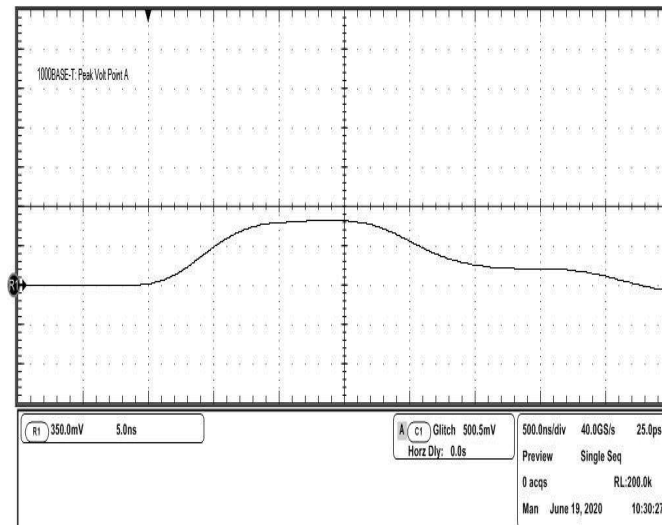
IEEE Std 802.3ab, Sec 40.6.1.2.3: 1000Base-T Differential output template point H



Spec Range: Fit the template

Template Point H Test Result :
Pass

IEEE Std 802.3ab, Sec 40.6.1.2.2: :1000 Base-T Peak differential output voltage point A



Spec Range: Magnitude of the voltage at point A should lie in the range 670mV to 820mV

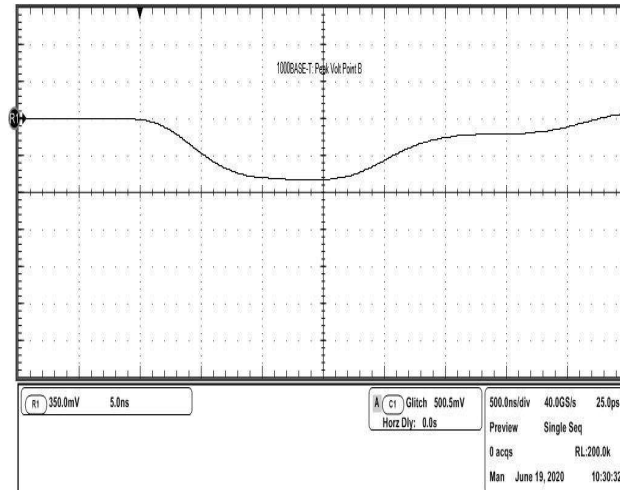
Point A Peak Volt :

573.5mV

Point A Peak Volt Test Result :

Fail

IEEE Std 802.3ab, Sec 40.6.1.2.2 :1000 Base-T Peak differential output voltage point B



Spec Range: Magnitude of the voltage at point B should lie in the range 670mV to 820mV.

Difference between the magnitudes of the voltages at points A and B < 1%.

Point B Peak Volt :

575.4mV

Point B Peak Volt Test Result :

Fail

%Diff A and B :

0.16%

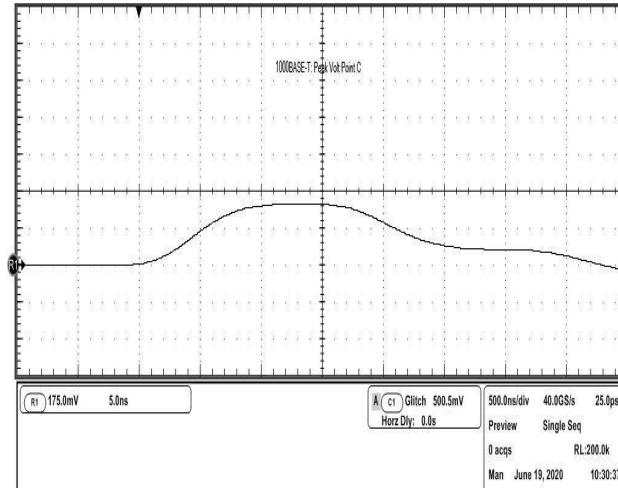
Point A Peak Volt :

573.5mV

%Diff A and B : Test Result :

Pass

IEEE Std 802.3ab, Sec 40.6.1.2.2 :1000 Base-T Peak differential output voltage point C



Spec Range: Difference between the magnitude of the voltage at point D and 0.5 times the average of the voltage magnitudes at points A and B < 2%

Peak Volt Point A Peak :
573.5mV

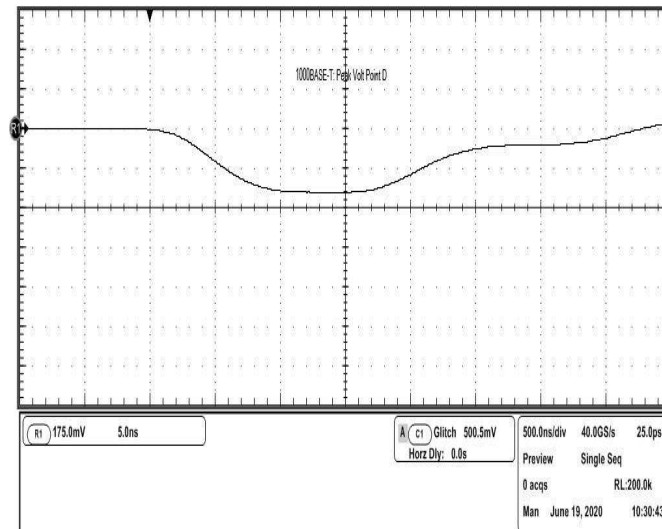
Peak Volt Point B Peak :
575.4mV

Peak Volt Point C Peak :
288.3mV

Peak Volt % Diff C :
0.39%

Peak Volt Point C Test Result :
Pass

IEEE Std 802.3ab, Sec 40.6.1.2.2 :1000 Base-T Peak differential output voltage point D



Spec Range: Difference between the magnitude of the voltage at point D and 0.5 times the average of the voltage magnitudes at points A and B < 2%

Point A Peak Volt :
573.5mV

Point B Peak Volt :
575.4mV

Point D Peak Volt :
283.8mV

Peak Volt % Diff D :
1.21%

Point D Peak Volt Test Result :
Pass

IEEE Std 802.3ab, Sec 40.6.1.2.2: 1000Base-T Maximum output droop point G

Not Available

Spec Range: Ratio of the voltage at point G to the voltage at point F > 73.1%. Limit: Ratio of the voltage at point G to the voltage at point F.	
Droop Point G Peak : Not Available	Droop Point F Peak : Not Available
Droop Point G Limit : Not Available	Droop Point G Test Result : Not Available

IEEE Std 802.3ab, Sec 40.6.1.2.2: 1000Base-T Maximum output droop point J

Not Available

Spec Range: Ratio of the voltage at point J to the voltage at point H > 73.1%. Limit: Ratio of the voltage at point J to the voltage at point H.	
Droop Point J Peak : Not Available	Droop Point H Peak : Not Available
Droop Point J Limit : Not Available	Droop Point J Test Result : Not Available

IEEE Std 802.3ab, Sec 40.6.1.2.5: 1000Base-T Master Filtered Jitter

Trend Plot: Master Filtered Pk-Pk Jitter

Not Available

Trend Plot: Master Jtx_Out

Not Available

Spec Range: Peak-to-peak value of the MASTER TX_TCLK filtered + JTx of Data <0.3ns	
Master Filtered Pk-Pk Jitter : Not Available	Master Jtx_Out : Not Available
Master Filtered Pk-Pk Jitter + Master Jtx_Out : Not Available	Master Filtered Clk Edges : Not Available
Master Filtered Pk-Pk Jitter Test Result : Not Available	

IEEE Std 802.3ab, Sec 40.6.1.2.5: 1000Base-T Master Unfiltered Jitter [Histogram Method]

Master Unfiltered Pk-Pk Jitter [Histogram]

Not Available

Spec Range: Peak-to-peak value of the Master TX_TCLK jitter relative to unjittered reference <1.4ns	
Master Unfiltered Pk-Pk Jitter : Not Available	Master Unfiltered Median : Not Available
Master Unfiltered Mean : Not Available	Master Unfiltered Pk-Pk Jitter Test Result : Not Available

IEEE Std 802.3ab, Sec 40.6.1.2.5: 1000Base-T Master Unfiltered Jitter [TIE Method]

Trend Plot: Master Unfiltered Pk-Pk Jitter

Not Available

Spec Range: Peak-to-peak value of the Master TX_TCLK jitter relative to unjittered reference <1.4ns	
Master Unfiltered Pk-Pk Jitter : Not Available	Master Unfiltered Clk Edges : Not Available
Master Unfiltered Pk-Pk Jitter Test Result : Not Available	

IEEE Std 802.3ab, Sec 40.6.1.2.5: 1000Base-T Slave Filtered Jitter

Trend Plot: Master Filtered Pk-Pk Jitter

Not Available

Trend Plot: Slave Filtered Pk-Pk Jitter

Not Available

Trend Plot: Slave Jtx_Out

Not Available

Spec Range: Peak-to-peak value of the SLAVE TX_TCLK filtered jitter + JTx of Data < 0.4ns + Pk - Pk Master Filtered jitter	
Master Filtered Pk-Pk Jitter : Not Available	Slave Filtered Pk-Pk Jitter : Not Available
Slave Jtx_Out : Not Available	Slave Filtered Clk Edges : Not Available
Slave Filtered Pk-Pk Jitter + Slave Jtx_Out : Not Available	0.4ns + Master Filtered Pk-Pk Jitter : Not Available
Slave Filtered Pk-Pk Jitter Test Result : Not Available	

IEEE Std 802.3ab, Sec 40.6.1.2.5: 1000Base-T Slave Unfiltered Jitter[Histogram Method]

Slave Unfiltered Pk-Pk Jitter [Histogram]

Not Available

Spec Range: Peak-to-peak value of the SLAVE TX_TCLK jitter relative to MASTER TX_TCLK <1.4ns	
Slave Unfiltered Pk-Pk Jitter : Not Available	Slave Unfiltered Median : Not Available
Slave Unfiltered Mean : Not Available	Slave Unfiltered Pk-Pk Jitter Test Result : Not Available

IEEE Std 802.3ab, Sec 40.6.1.2.5: 1000Base-T Slave Unfiltered Jitter[TIE Method]

Trend Plot: Slave Unfiltered Pk-Pk Jitter

Not Available

Spec Range: Peak-to-peak value of the SLAVE TX_TCLK jitter relative to MASTER TX_TCLK <1.4ns	
Slave Unfiltered Pk-Pk Jitter : Not Available	Slave Unfiltered Clk Edges : Not Available
Slave Unfiltered Pk-Pk Jitter Test Result : Not Available	

1000Base-T Master Filtered Jitter (with out TX_TCLK access)

Note: This is an alternate test method for jitter measurement being proposed, when TX_TCLK is not accessible.

Trend Plot: Data(TM2) Pk-Pk Jitter

Not Available

Spec Range: Data(TM2) Filtered Jitter < 0.3nS	
Data(TM2) Pk-Pk Jitter : Not Available	Data(TM2) CLK Edges : Not Available
Test Result : Not Available	

1000Base-T Master Unfiltered Jitter (with out TX_TCLK access) - Histogram

Note: This is an alternate test method for jitter measurement being proposed, when TX_TCLK is not accessible.

Trend Plot: Data(TM2) Unfiltered Pk-Pk Jitter [Histogram]

Not Available

Spec Range: Data(TM2) Unfiltered Jitter < 1.4nS	
Data(TM2) Pk-Pk Jitter : Not Available	Test Result : Not Available
Remarks : Not Available	

1000Base-T Master Unfiltered Jitter (with out TX_TCLK access) - TIE

Note: This is an alternate test method for jitter measurement being proposed, when TX_TCLK is not accessible.

Trend Plot: Data(TM2) Unfiltered Pk-Pk Jitter [TIE]

Not Available

Spec Range: Data(TM2) Unfiltered Jitter < 1.4nS	
Data(TM2) Pk-Pk Jitter : Not Available	Data(TM2) CLK Edges : Not Available
Test Result : Not Available	

1000Base-T Slave Filtered Jitter (with out TX_TCLK access)

Note: This is an alternate test method for jitter measurement being proposed, when TX_TCLK is not accessible.

Trend Plot: Data(TM2) Pk-Pk Jitter

Not Available

Trend Plot: Data(TM3) Pk-Pk Jitter

Not Available

Spec Range: Data(TM3) Filtered Jitter - Data(TM2) Filtered Jitter < 0.4nS	
Data(TM2) Pk-Pk Jitter : Not Available	Data(TM3) Pk-Pk Jitter : Not Available
Data(TM3) Pk-Pk Jitter - Data(TM2) Pk-Pk Jitter : Not Available	Data(TM3) Clk Edges : Not Available
Test Result : Not Available	

1000Base-T Slave Unfiltered Jitter (with out TX_TCLK access) - Histogram

Note: This is an alternate test method for jitter measurement being proposed, when TX_TCLK is not accessible.

Trend Plot:Data(TM2) Unfiltered Pk-Pk Jitter [Histogram]

Not Available

Trend Plot:Data(TM3) Unfiltered Pk-Pk Jitter [Histogram]

Not Available

Spec Range: Data(TM3) Unfiltered Jitter - Data(TM2) Unfiltered Jitter < 1.4ns	
Data(TM2) Pk-Pk Jitter : Not Available	Data(TM3) Pk-Pk Jitter : Not Available
Data(TM3) Pk-Pk Jitter - Data(TM2) Pk-Pk Jitter : Not Available	Test Result : Not Available
Remarks : Not Available	

1000Base-T Slave Unfiltered Jitter (with out TX_TCLK access) - TIE

Note: This is an alternate test method for jitter measurement being proposed, when TX_TCLK is not accessible.

Trend Plot:Data(TM2) Unfiltered Pk-Pk Jitter [TIE]

Not Available

Trend Plot:Data(TM3) Unfiltered Pk-Pk Jitter [TIE]

Not Available

Spec Range: Data(TM3) Unfiltered Jitter - Data(TM2) Unfiltered Jitter < 1.4ns	
Data(TM2) Pk-Pk Jitter : Not Available	Data(TM3) Pk-Pk Jitter : Not Available
Data(TM3) Pk-Pk Jitter-Data(TM2) Pk-Pk Jitter : Not Available	Data(TM3) Clk Edges : Not Available
Test Result : Not Available	

IEEE Std 802.3ab, Sec 40.6.1.2.4: 1000Base-T Transmitter Distortion

Not Available

Spec Range: Peak Distortion < 10mV	
Test Result : Not Available	Peak Distortion : Not Available
RMS : Not Available	SNR : Not Available
Other Details : Not Available	

IEEE Std 802.3ab, Sec 40.8.3.1: 1000Base-T Return Loss

Not Available

Frequency	Spec. Value	Measured Value Not Available	Result
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	-16.00dB	Not Available	
50 MHz	-14.08dB	Not Available	
60 MHz	-12.50dB	Not Available	
70 MHz	-11.16dB	Not Available	
80 MHz	-10.00dB	Not Available	
90 MHz	-8.97dB	Not Available	
100 MHz	-8.07dB	Not Available	

Return Loss Result Not Available

IEEE Std 802.3ab, Sec 40.8.3.3: Common-mode output voltage

Not Available

Spec Range: Less than 50mV peak-to-peak	
Common-mode 1000BaseT output voltage	Not Available
Common-mode for 1000T Result	Not Available