



SuperSpeed Test Results

Electrical Tests	Measured Values	Result
TD.1.3 Transmitted Eye Test		Fail
Long Channel:		
Eye Pattern:		Fail
Tx Unit Interval: ($\geq 199.94\text{ps}$ and $\leq 201.06\text{ps}$)	200.433201 ps	Pass
Tj: ($\leq 0.66\text{UI}$, 132ps)	90.351925 ps	Pass
Dj: ($\leq 0.43\text{UI}$, 86ps)	70.801924 ps	Pass
Rj (rms): ($\leq 3.270\text{ps}$)	1.390469 ps	Pass
Rj: ($= 14.068 \text{ Rj (rms)}$ $\leq 0.23\text{UI}$, 46ps)	19.561118 ps	Pass
Eye Height: ($\geq 100\text{mV}$ and $\leq 1200\text{mV}$)	max: 358.213 mV min: 51.118 mV	Fail
Short Channel:		
Eye Pattern:		Pass
Tx Unit Interval: ($\geq 199.94\text{ps}$ and $\leq 201.06\text{ps}$)	200.435340 ps	Pass
Tj: ($\leq 0.66\text{UI}$, 132ps)	72.067938 ps	Pass
Dj: ($\leq 0.43\text{UI}$, 86ps)	53.181997 ps	Pass
Rj (rms): ($\leq 3.270\text{ps}$)	1.343239 ps	Pass
Rj: ($= 14.068 \text{ Rj (rms)}$ $\leq 0.23\text{UI}$, 46ps)	18.896686 ps	Pass
Eye Height: ($\geq 100\text{mV}$ and $\leq 1200\text{mV}$)	max: 834.215000 mV min: 280.308000 mV	Pass



SuperSpeed Signal Quality

Long Channel:

Overall Sigtest Result: **Fail!**

Mean Unit Interval (ps): 200.433201

Min Time Between Crossovers (ps): 123.444025

Data Rate (Gb/s): 4.989193

Max Peak to Peak Jitter: 101.691126 ps

Total Jitter at BER of 10E-12: 90.351925 ps

Total Jitter at BER of 10E-12 Passes Sigtest Limits!

Minimum eye width: 109.648075 ps

Deterministic Jitter Delta-Delta: 70.801924 ps

Deterministic Jitter Delta-Delta Passes Sigtest Limits!

Random Jitter (RMS): 1.390469 ps

Random Jitter (RMS) Passes Sigtest Limits!

Minimum Transition Eye Voltage: -0.180116 volts

Minimum Transition Eye Voltage Passes Sigtest Limits!

Maximum Transition Eye Voltage: 0.178097 volts

Maximum Transition Eye Voltage Passes Sigtest Limits!

Minimum Non Transition Eye Voltage: -0.178808 volts

Minimum Non Transition Eye Voltage Passes Sigtest Limits!

Maximum Non Transition Eye Voltage: 0.179155 volts

Maximum Non Transition Eye Voltage Passes Sigtest Limits!

Composit Eye Height: 0.051118

Composit Eye Location: 0.5

Minimum Transition Eye Voltage Margin Above Eye: -0.02495 volts

Minimum Transition Eye Voltage Margin Above Eye Fails Sigtest Limits!

Minimum Transition Eye Voltage Margin Below Eye: 0.023932 volts

Minimum Transition Eye Voltage Margin Below Eye Fails Sigtest Limits!

Minimum Transition Eye Height: 0.051118 volts

Minimum Non Transition Eye Voltage Margin Above Eye: 0.01147 volts

Minimum Non Transition Eye Voltage Margin Above Eye Passes Sigtest Limits!

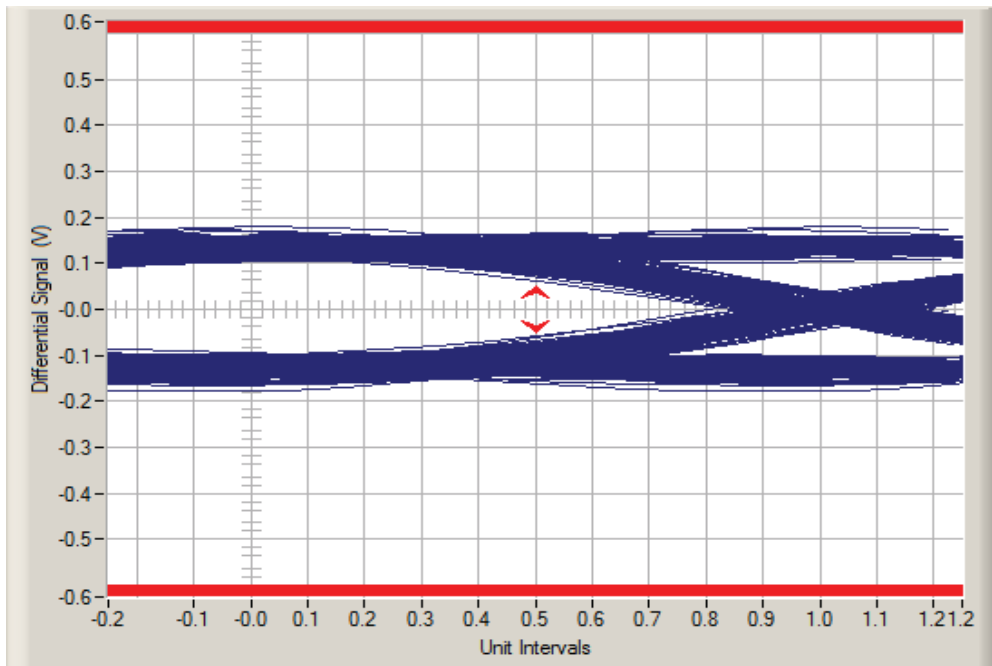
Minimum Non Transition Eye Voltage Margin Below Eye: -0.009023 volts

Minimum Non Transition Eye Voltage Margin Below Eye Passes Sigtest Limits!

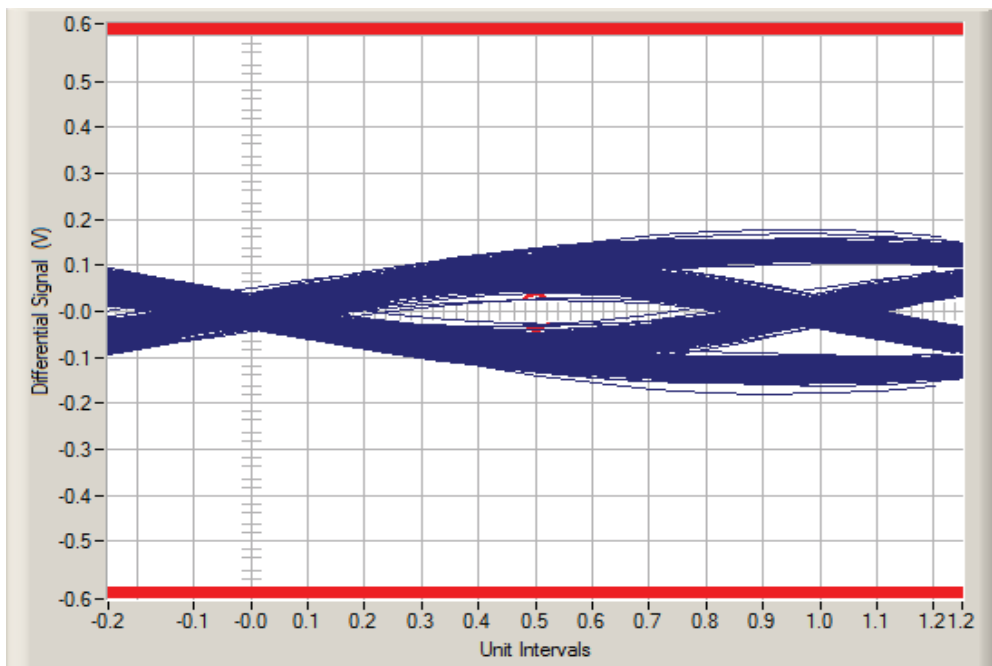
Minimum Non Transition Eye Height: 0.120493 volts



Worst Non Transition Signal Eye



Worst Transition Signal Eye





Short Channel:

Overall Sigtest Result: **Pass!**

Mean Unit Interval (ps): 200.43534

Min Time Between Crossovers (ps): 165.018622

Data Rate (Gb/s): 4.98914

Max Peak to Peak Jitter: 74.060268 ps

Total Jitter at BER of 10E-12: 72.067938 ps

Total Jitter at BER of 10E-12 Passes Sigtest Limits!

Minimum eye width: 127.932062 ps

Deterministic Jitter Delta-Delta: 53.181997 ps

Deterministic Jitter Delta-Delta Passes Sigtest Limits!

Random Jitter (RMS): 1.343239 ps

Random Jitter (RMS) Passes Sigtest Limits!

Minimum Transition Eye Voltage: -0.414967 volts

Minimum Transition Eye Voltage Passes Sigtest Limits!

Maximum Transition Eye Voltage: 0.419248 volts

Maximum Transition Eye Voltage Passes Sigtest Limits!

Minimum Non Transition Eye Voltage: -0.389397 volts

Minimum Non Transition Eye Voltage Passes Sigtest Limits!

Maximum Non Transition Eye Voltage: 0.391589 volts

Maximum Non Transition Eye Voltage Passes Sigtest Limits!

Composit Eye Height: 0.280308

Composit Eye Location: 0.5

Minimum Transition Eye Voltage Margin Above Eye: 0.090966 volts

Minimum Transition Eye Voltage Margin Above Eye Passes Sigtest Limits!

Minimum Transition Eye Voltage Margin Below Eye: -0.089342 volts

Minimum Transition Eye Voltage Margin Below Eye Passes Sigtest Limits!

Minimum Transition Eye Height: 0.280308 volts

Minimum Non Transition Eye Voltage Margin Above Eye: 0.09786 volts

Minimum Non Transition Eye Voltage Margin Above Eye Passes Sigtest Limits!

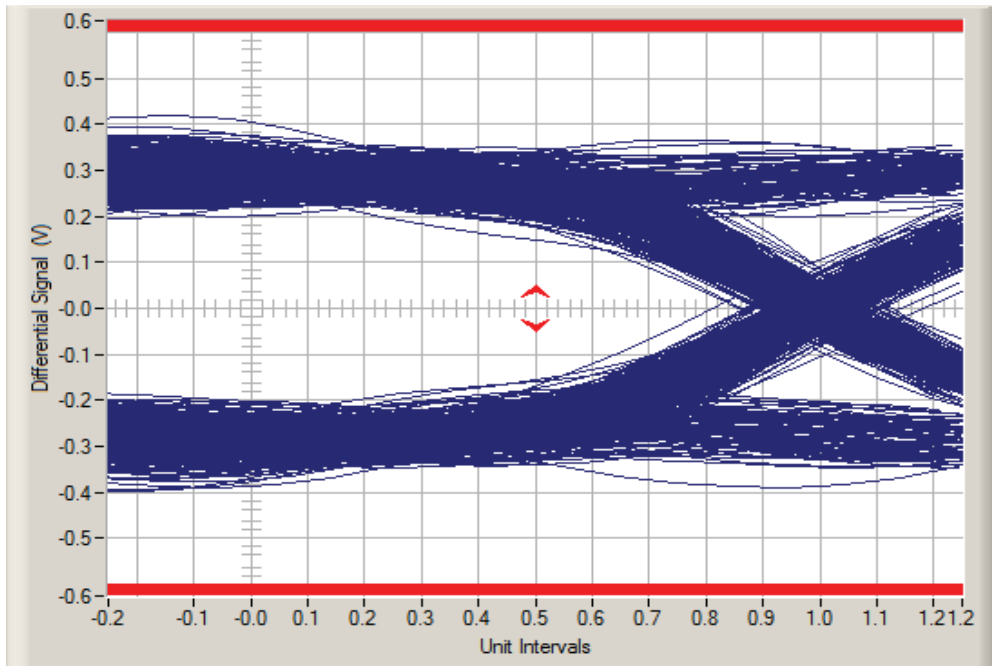
Minimum Non Transition Eye Voltage Margin Below Eye: -0.104918 volts

Minimum Non Transition Eye Voltage Margin Below Eye Passes Sigtest Limits!

Minimum Non Transition Eye Height: 0.302778 volts



Worst Non Transition Signal Eye



Worst Transition Signal Eye

