

## Test Report for 100Base-TX

Time: 16:36:11

Device ID : T99X171T00

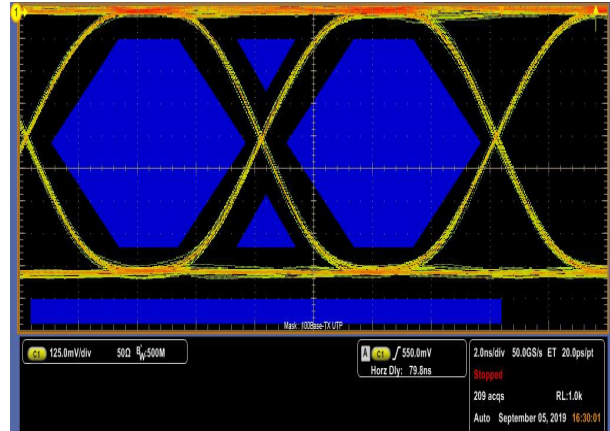
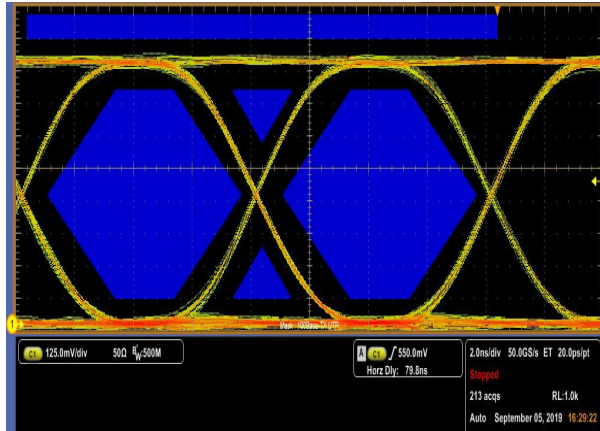
Device Description BFX - UH200

Port ID : Lan

| Test                    | Spec. Range       | Measured Value | Result        |
|-------------------------|-------------------|----------------|---------------|
| AOI Template            | Fit the template  |                | Pass          |
| Output Voltage (+Vout)  | 950mV to 1050mV   | 993.6mV        | Pass          |
| Output Voltage (-Vout)  | -950mV to -1050mV | -990.0mV       | Pass          |
| Amplitude Symmetry      | 0.98 to 1.02      | 1.004          | Pass          |
| Rise Time(+ve)          | 3ns to 5ns        | 3.76ns         | Pass          |
| Rise Time(-ve)          | 3ns to 5ns        | 3.7ns          | Pass          |
| Fall Time(+ve)          | 3ns to 5ns        | 3.89ns         | Pass          |
| Fall Time(-ve)          | 3ns to 5ns        | 3.86ns         | Pass          |
| Rise/Fall Symmetry(+ve) | <500ps            | 137ps          | Pass          |
| Rise/Fall Symmetry(-ve) | <500ps            | 162ps          | Pass          |
| Overshoot(+ve)          | <5%               | 0.00%          | Pass          |
| Overshoot(-ve)          | <5%               | 0.00%          | Pass          |
| Transmit Jitter(+ve)    | <1.4ns            | 590ps          | Pass          |
| Transmit Jitter(-ve)    | <1.4ns            | 560ps          | Pass          |
| Distortion (Duty Cycle) | <500ps(±250ps)    | 180ps          | Pass          |
| Transmitter Return Loss |                   |                | Not Available |
| Receiver Return Loss    |                   |                | Not Available |

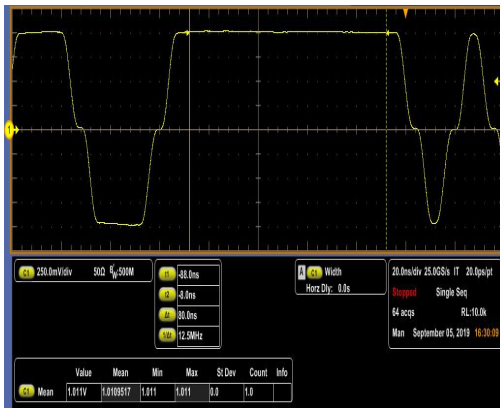
Application Version : 3.2.10.35

## 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) : 993.6mV | Negative Amplitude(-Vout) : -990.0mV  |
| Baseline(+ve) : 17.3mV              | Baseline(-ve) : 7.9mV                 |
| <b>Spec Range : 950mV to 1050mV</b> | <b>Spec Range : -950mV to -1050mV</b> |
| Output Voltage(+Vout) Result : Pass | Output Voltage(-Vout) Result : Pass   |

Differential Output Voltage Result : Pass

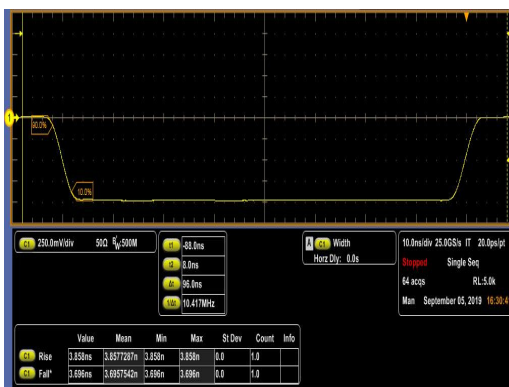
NOTE: Amplitude values are corrected for Baseline

## ANSI X3.263-1995: 9.1.4 Signal Amplitude Symmetry



|                           |       |
|---------------------------|-------|
| Amplitude Symmetry        | 1.004 |
| Spec Range: 0.98 to 1.02  |       |
| Amplitude Symmetry Result | Pass  |

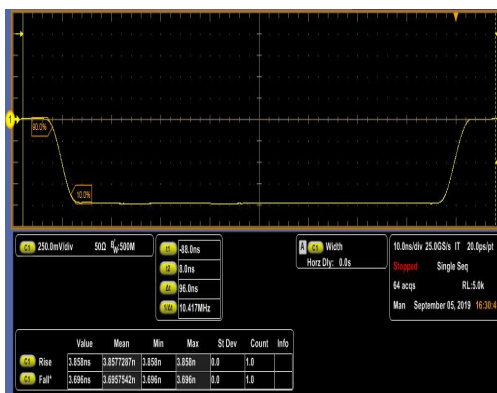
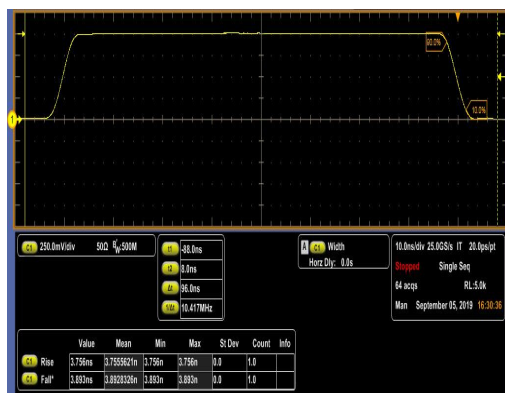
## ANSI X3.263-1995: 9.1.6 Rise Time



|                         |        |                         |       |
|-------------------------|--------|-------------------------|-------|
| Rise Time(+ve) :        | 3.76ns | Rise Time(-ve) :        | 3.7ns |
| 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

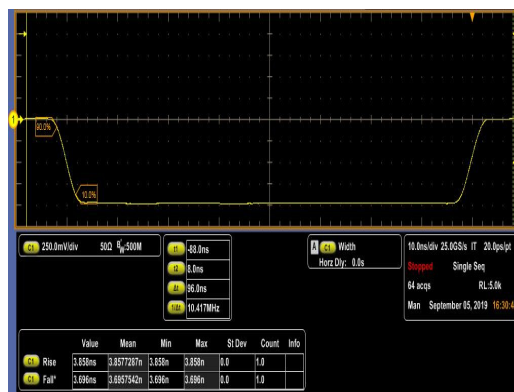
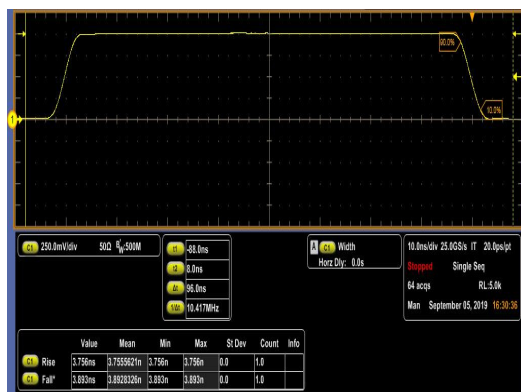
## ANSI X3.263-1995: 9.1.6 Fall Time



|                         |        |                         |        |
|-------------------------|--------|-------------------------|--------|
| Fall Time(+ve) :        | 3.89ns | Fall Time(-ve) :        | 3.86ns |
| 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

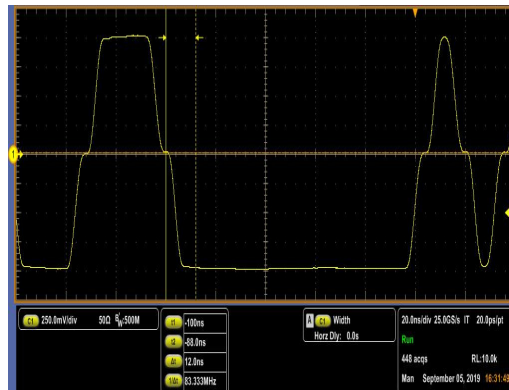


|                                |       |                                |       |
|--------------------------------|-------|--------------------------------|-------|
| Rise/Fall Symmetry(+ve) :      | 137ps | Rise/Fall Symmetry(-ve) :      | 162ps |
| Spec Range: <500ps             |       | Spec Range: <500ps             |       |
| Rise/Fall Symmetry(+ve) Result | Pass  | Rise/Fall Symmetry(-ve) Result | Pass  |

Rise/Fall Symmetry(Max-Min) : 197ps

Rise/Fall Symmetry Result Pass

## ANSI X3.263-1995: 9.1.3 Waveform Overshoot

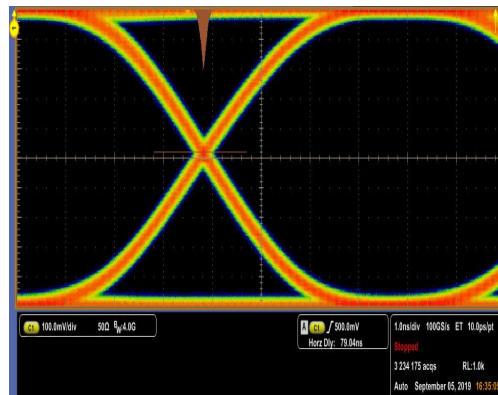
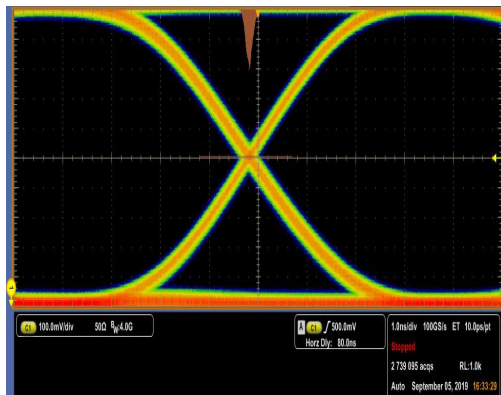


|                         |       |                         |       |
|-------------------------|-------|-------------------------|-------|
| Overshoot(+ve) :        | 0.00% | Overshoot(-ve) :        | 0.00% |
| Spec Range: <5 %        |       | Spec Range: <5 %        |       |
| Overshoot(+ve) Result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

Waveform Overshoot Test Results

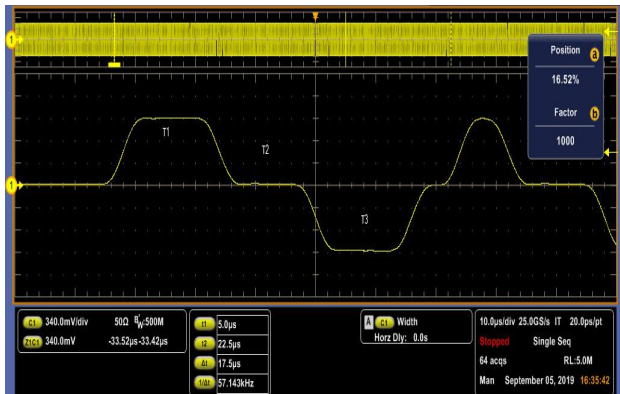
Pass

## ANSI X3.263-1995: 9.1.9 Transmit Jitter



|                               |       |                               |       |
|-------------------------------|-------|-------------------------------|-------|
| Transmit Jitter(+ve) :        | 590ps | Transmit Jitter(-ve) :        | 560ps |
| 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) : 180ps

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

Distortion(Duty Cycle) Result :

Pass

T1 = 180ps T2 = 140ps

T3 = 80.0ps T4 = 40.0ps

T5 = 60.0ps T6 = 120ps

## 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