



1000BASE-T1 Test Report



Table of Contents

General Information	2
Test Summary	3
<i>1000BASE-T1 Transmitter timing jitter master mode (test mode 1)</i>	3
<i>1000BASE-T1 Transmitter timing jitter slave mode (test mode 1)</i>	3
<i>1000BASE-T1 MDI Mode Conversion Loss and Return Loss</i>	3
Test Details	4
<i>Transmitter timing jitter master mode (test mode 1) - (Run 1)</i>	5
<i>Transmitter timing jitter slave mode (test mode 1) - (Run 1)</i>	6
<i>MDI Mode Conversion Loss and Return Loss - (Run 1)</i>	6



1000BASE-T1 Test Report



General Information

Device	
User	
Site	
Date	8/2/2025
Temperature	
Instrument	RTO 2024
Oscilloscope FW Version	4.80.1.0
Scope Suite Version	4.80.1.0
Comments	



1000BASE-T1 Test Report



Test Summary

1000BASE-T1 Transmitter timing jitter master mode (test mode 1)

Result	Test	Description	Run
✓	97.5.3.3	Transmitter timing jitter of the 125MHz clock	1

1000BASE-T1 Transmitter timing jitter slave mode (test mode 1)

Result	Test	Description	Run
✓	97.5.3.3	Transmitter timing jitter of the 125MHz clock	1

1000BASE-T1 MDI Mode Conversion Loss and Return Loss

Result	Test	Description	Run
✗	97.7.2.2 and 97.7.2.1	MDI Mode Conversion Loss and Return Loss	1



1000BASE-T1 Test Report



Test Details



1000BASE-T1 Test Report



Transmitter timing jitter master mode (test mode 1)



Description	Transmitter timing jitter of the 125MHz clock
Run	1
Result	Pass
Time	08/02/2025 14:38:08
Comment	

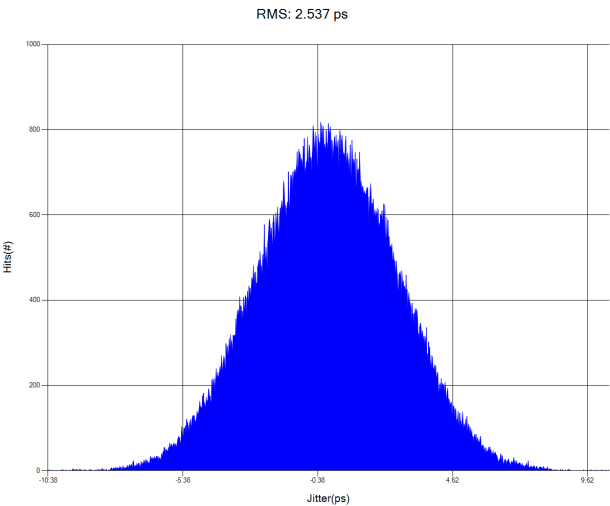
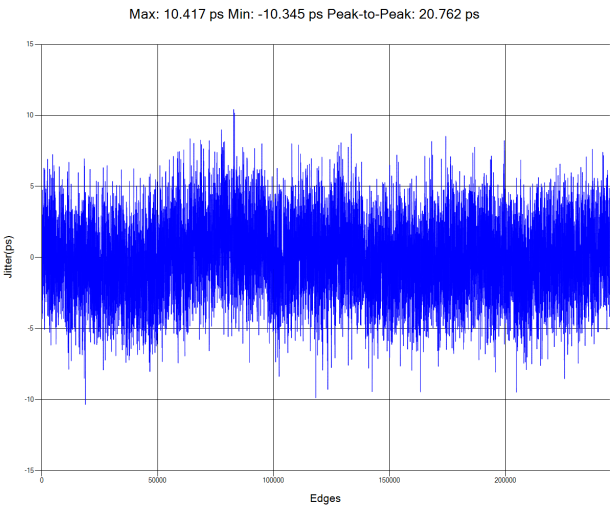
Properties

Name	Value	Name	Value
HD Mode	Yes	Measurement Time	0.001 s
5MHz Bandpass Filter	Yes	Expert Mode	No
Offline Mode	No		

Additional Information

Measurement	Value	Limits
RMS Jitter (Master mode)	2.537 ps	$x \leq 5$ ps
Peak-to-Peak Jitter (Master mode)	20.762 ps	$x \leq 50$ ps
Measured time	1 ms	

RMS Jitter (Master mode)





1000BASE-T1 Test Report



Transmitter timing jitter slave mode (test mode 1)



Description	Transmitter timing jitter of the 125MHz clock
Run	1
Result	Pass
Time	08/02/2025 14:41:34
Comment	

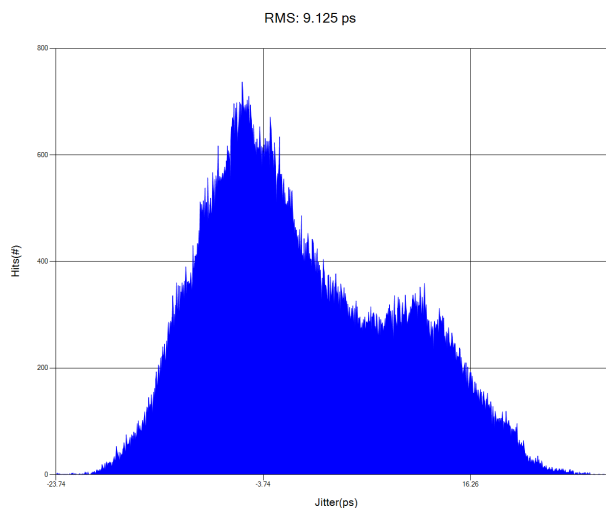
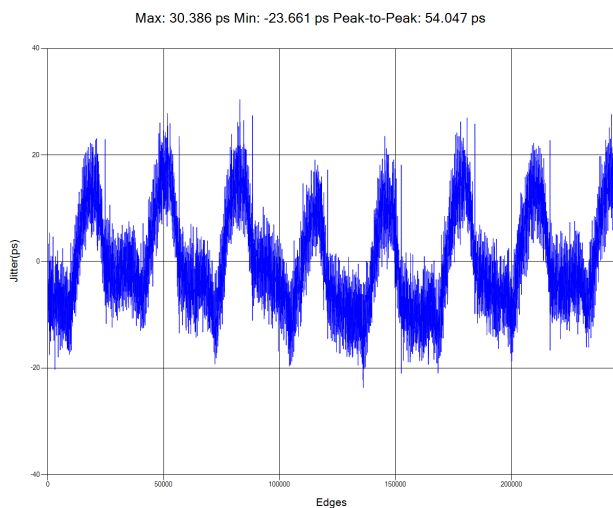
Properties

Name	Value	Name	Value
HD Mode	Yes	Measurement Time	0.001 s
5MHz Bandpass Filter	Yes	Expert Mode	No
Offline Mode	No		

Additional Information

Measurement	Value	Limits
RMS Jitter (Slave mode)	9.125 ps	$x \leq 10$ ps
Peak-to-Peak Jitter (Slave mode)	54.047 ps	$x \leq 100$ ps
Measured time	1 ms	

RMS Jitter (Slave mode)



MDI Mode Conversion Loss and Return Loss





1000BASE-T1 Test Report



Description	MDI Mode Conversion Loss and Return Loss
Run	1
Result	Fail
Time	08/02/2025 15:19:00
Comment	

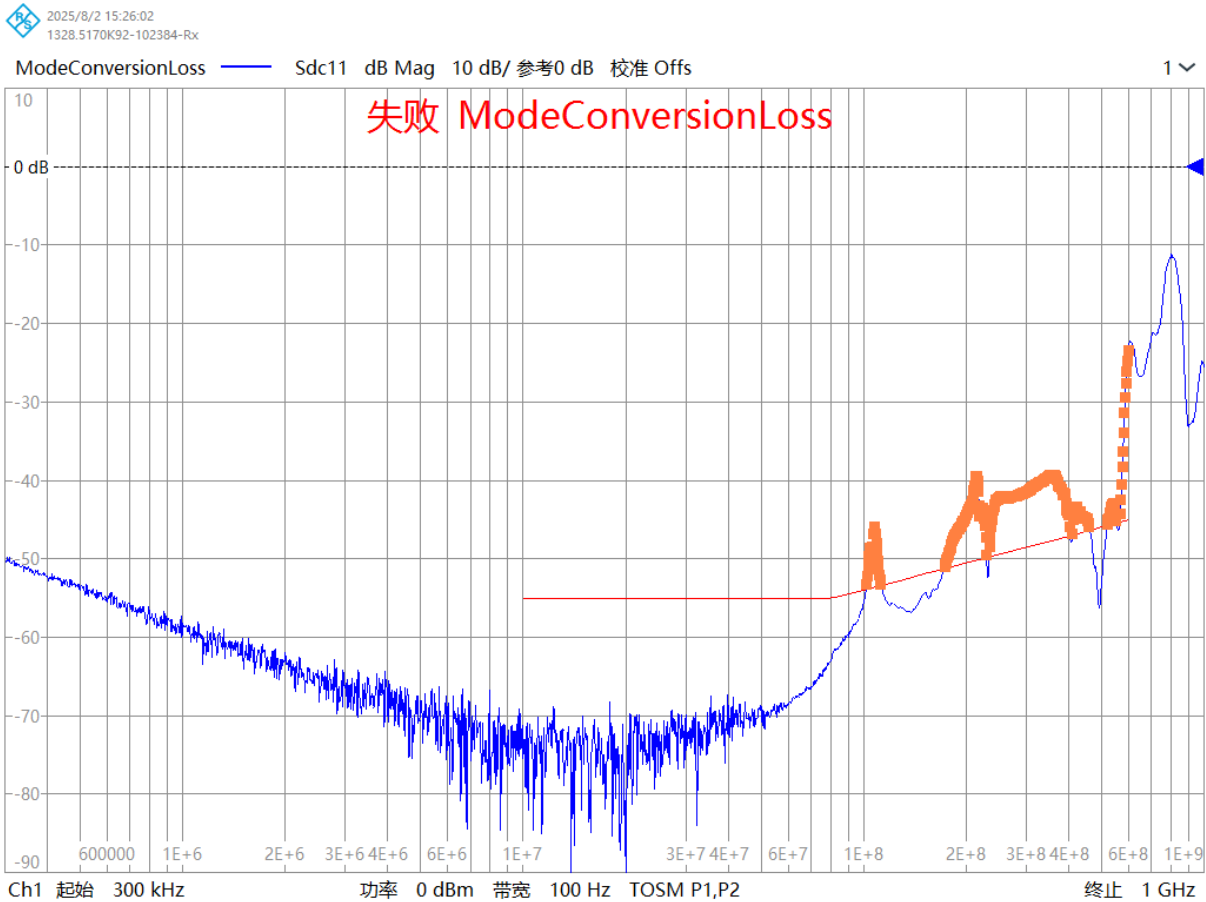
Properties

Name	Value	Name	Value
Average Count	16	BandWidth	100 Hz
Fixture Compensation	Yes	Expert Mode	No
Test Limit	ECU	Calibration File	Default1000BaseT1_MDI

Additional Information

Measurement	Value	Limits
MDI Mode Conversion Loss	Some points failed	No point failed
MDI Return Loss	Some points failed	No point failed

MDI Mode Conversion Loss





1000BASE-T1 Test Report



MDI Return Loss

2025/8/2 15:26:04
1328.5170K92-102384-Rx

ReturnLoss — Sdd11 dB Mag 10 dB/ 参考0 dB 校准 Offs

2 ✓

