

# Xena2889 Test Report

## Test Summary

Test company: Teledyne LeCroy  
Customer: Xena Networks  
Test Date and Time: 2025-04-09, 11:16  
Test Duration: 01:41:47 (h:m:s)  
Generated By: Xena2889 v1.46, running on 'Microsoft Windows 10 Enterprise LTSC 2021'  
Comments: Components:  
- host: aconbg027 (Windows 10 Enterprise LTSC)  
- chassis: XenaBay (140.181.139.228)  
- configuration: [github.com/GSI-CS-CO/network\\_testing/wr\\_RFC\\_2889/xena\\_cfg/RFC\\_2889\\_4\\_switches\\_Xena.x2889](https://github.com/GSI-CS-CO/network_testing/wr_RFC_2889/xena_cfg/RFC_2889_4_switches_Xena.x2889)  
  
DUT:  
- WRS: scb v3.4, Creotech  
- name: nwt0010/16/296/297  
- fw: v8.0  
- dot-config: timing\_localmaster\_xenabay, timing\_distribution, timing\_access\_all\_xenabay  
  
GSI use-case:  
- DM broadcast

## Test Setup

### Test Configuration

#### Subtest Selection

Rate Test: Full Mesh	Disabled
Rate Test: Part.Mesh, 1:N	Disabled
Rate Test: Part.Mesh, N->N	Disabled
Congestion Control:	Disabled
Forward Pressure:	Disabled
Maximum Forwarding Rate:	Disabled
Address Caching Capacity:	Disabled
Address Learning Rate:	Disabled
Errored Frames Filtering:	Disabled
Broadcast Forwarding:	Enabled

#### Test Options

Packet Sizes Used:	90,134,222,398,574,750
Rate Type:	Fraction
Fraction per Port:	100,00%
Latency Measurement Mode:	Last-To-Last
Toggle Port Sync States:	Yes

## Traffic Configuration

### Used Chassis

Chassis ID	Chassis Name	Address
C-0	xenatos	140.181.139.228:22606

## Used Ports

Port ID	Interface Type	Speed	IP Address & Gateway	Protocol Segment Profile
P-0-0-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-0-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-2-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-0	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-1	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-2	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-3	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-4	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet
P-0-4-5	SFP-O LR 1310 nm	AUTO	No address specified	1: Ethernet

## Broadcast Forwarding Results

### Test Setup

Duration: 30 seconds  
 Iteration: 3  
 Initial Rate: 0,10%  
 Maximum Rate: 100,00%  
 Minimum Rate: 0,01%  
 Resolution: 1,00%

Port ID	Port Role
P-0-2-0	Source
P-0-0-0	Destination
P-0-0-1	Destination
P-0-0-2	Destination
P-0-0-3	Destination
P-0-0-4	Destination
P-0-0-5	Destination
P-0-2-1	Destination
P-0-2-2	Destination
P-0-2-3	Destination
P-0-2-4	Destination
P-0-2-5	Destination
P-0-4-0	Destination
P-0-4-1	Destination
P-0-4-2	Destination
P-0-4-3	Destination
P-0-4-4	Destination
P-0-4-5	Destination

### Test Results

Frame Size	90	134	222	398	574	750
Result State	PASS	PASS	PASS	PASS	PASS	PASS
Iter. #	(avg)	(avg)	(avg)	(avg)	(avg)	(avg)
Tx Rate (Percent)	89,854 %	92,586 %	94,537 %	97,073 %	97,659 %	98,463 %
Tx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
Tx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
Tx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
Loss Rate (Percent)	0 %	0 %	0 %	0 %	0 %	0 %
Loss (Frames)	0	0	0	0	0	0
P-0-0-0						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,891	11,914	11,765	11,898	11,832	13,198
- Min Latency (micsec)	10,673	11,555	11,587	11,675	11,571	11,635
- Max Latency (micsec)	14,450	15,091	14,859	15,596	16,695	21,690
- Avg Jitter (micsec)	0,009	0,006	0,003	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,381	2,188	1,996	2,212	2,020	1,852
P-0-0-1						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,905	11,937	11,817	11,914	11,842	13,215
- Min Latency (micsec)	10,673	11,651	11,611	11,675	11,619	11,756
- Max Latency (micsec)	15,003	14,875	15,099	16,198	15,083	21,738
- Avg Jitter (micsec)	0,009	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,285	2,044	2,020	2,068	2,140	1,876
P-0-0-2						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,899	11,929	11,830	11,904	11,856	13,218

- Min Latency (micsec)	10,673	11,675	11,635	11,699	11,619	11,756
- Max Latency (micsec)	14,426	15,644	14,762	15,885	15,083	21,738
- Avg Jitter (micsec)	0,009	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,237	3,151	1,996	2,068	2,116	1,852
P-0-0-3						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,881	11,883	11,789	11,909	11,793	13,197
- Min Latency (micsec)	10,649	11,483	11,539	11,555	11,523	11,587
- Max Latency (micsec)	14,474	15,139	14,786	16,125	15,083	21,738
- Avg Jitter (micsec)	0,009	0,006	0,007	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,429	2,140	2,044	1,972	2,068	1,924
P-0-0-4						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,893	11,905	11,804	11,903	11,835	13,219
- Min Latency (micsec)	10,601	11,507	11,563	11,555	11,547	11,587
- Max Latency (micsec)	14,594	15,500	14,762	15,620	15,107	21,714
- Avg Jitter (micsec)	0,008	0,007	0,006	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,333	2,140	2,068	2,020	2,068	1,876
P-0-0-5						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,895	11,905	11,808	11,910	11,820	13,207
- Min Latency (micsec)	10,601	11,507	11,563	11,555	11,547	11,587
- Max Latency (micsec)	14,474	15,091	14,714	15,524	15,131	21,714
- Avg Jitter (micsec)	0,009	0,007	0,006	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,405	2,092	2,044	2,044	2,092	1,900
P-0-2-1						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,215	11,231	11,017	11,243	11,141	12,528
- Min Latency (micsec)	9,927	10,858	10,914	10,906	10,898	10,938
- Max Latency (micsec)	13,824	14,947	14,041	14,706	14,458	21,041
- Avg Jitter (micsec)	0,008	0,007	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,333	2,116	2,188	2,044	1,996	1,924
P-0-2-2						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,230	11,253	11,154	11,235	11,173	12,535
- Min Latency (micsec)	9,976	10,978	10,962	10,978	10,946	11,082
- Max Latency (micsec)	13,800	14,105	14,089	15,163	14,674	21,041
- Avg Jitter (micsec)	0,009	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,212	2,116	2,020	2,116	2,140	2,092
P-0-2-3						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,228	11,228	11,074	11,251	11,155	12,543
- Min Latency (micsec)	9,952	10,858	10,914	10,978	10,898	10,962
- Max Latency (micsec)	13,800	14,658	14,041	14,562	14,458	21,065
- Avg Jitter (micsec)	0,008	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,381	1,948	2,020	2,044	1,996	1,948
P-0-2-4						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,238	11,240	11,101	11,250	11,168	12,548
- Min Latency (micsec)	10,000	10,882	10,938	11,002	10,922	10,986

- Max Latency (micsec)	13,896	14,273	14,233	14,586	14,410	21,281
- Avg Jitter (micsec)	0,008	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,309	2,068	2,020	1,900	1,996	2,044
P-0-2-5						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,236	11,254	11,110	11,253	11,179	12,567
- Min Latency (micsec)	9,976	10,882	10,914	11,002	10,922	10,986
- Max Latency (micsec)	13,824	14,394	14,089	14,586	15,324	21,065
- Avg Jitter (micsec)	0,008	0,006	0,003	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,261	2,068	2,116	2,044	1,996	1,828
P-0-4-0						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,358	11,382	11,304	11,371	11,325	12,688
- Min Latency (micsec)	10,128	11,106	11,066	11,154	11,074	11,234
- Max Latency (micsec)	13,953	14,642	14,289	15,532	14,610	22,564
- Avg Jitter (micsec)	0,009	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,309	2,044	2,020	2,092	2,068	1,996
P-0-4-1						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,333	11,369	11,297	11,354	11,286	12,670
- Min Latency (micsec)	10,104	11,106	11,066	11,106	11,050	11,234
- Max Latency (micsec)	13,880	14,883	14,313	15,340	14,610	21,169
- Avg Jitter (micsec)	0,008	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,597	2,044	2,068	2,116	2,116	1,924
P-0-4-2						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,349	11,391	11,311	11,371	11,314	12,693
- Min Latency (micsec)	10,104	11,106	11,066	11,154	11,074	11,234
- Max Latency (micsec)	14,001	14,786	14,337	15,003	14,586	21,193
- Avg Jitter (micsec)	0,008	0,007	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,309	2,525	1,996	2,357	2,140	1,876
P-0-4-3						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,362	11,383	11,306	11,364	11,299	12,691
- Min Latency (micsec)	10,128	11,082	11,090	11,010	11,074	11,066
- Max Latency (micsec)	14,313	14,714	14,217	14,738	14,610	21,169
- Avg Jitter (micsec)	0,009	0,006	0,004	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,237	2,212	1,996	2,357	2,140	1,804
P-0-4-4						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,336	11,362	11,278	11,356	11,287	12,678
- Min Latency (micsec)	10,104	11,058	11,042	10,986	11,050	11,018
- Max Latency (micsec)	13,929	14,522	14,434	15,676	14,610	21,169
- Avg Jitter (micsec)	0,008	0,007	0,006	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,285	2,188	2,068	2,357	2,116	1,828
P-0-4-5						
- Rx (Frames)	27.568.812	20.290.663	13.184.356	7.837.851	5.548.783	4.315.768
- Rx Rate (L1) (Bit/s)	808,69 M	833,27 M	850,83 M	873,66 M	878,93 M	886,17 M
- Rx Rate (Fps)	918.960	676.355	439.479	261.262	184.959	143.859
- Avg Latency (micsec)	10,384	11,402	11,296	11,403	11,291	12,716
- Min Latency (micsec)	10,056	10,986	11,042	11,034	11,026	11,066
- Max Latency (micsec)	13,953	14,690	14,265	15,484	14,658	21,217

- Avg Jitter (micsec)	0,009	0,007	0,007	0,002	0,001	0,001
- Min Jitter (micsec)	0,000	0,000	0,000	0,000	0,000	0,000
- Max Jitter (micsec)	2,237	2,212	2,116	2,333	2,092	1,828

