



FTBx-8870 Report

PASS

Report Header: EXFO Inc.
Report Title:
Report Date: 3/31/2023 4:18:36 PM
Type: EtherSAM (Y.1564)

Job Information

Job ID: RTASK2478868
Circuit ID: CherryRoad:GTT/ GTT/001838646
Contractor Name:
Customer Name: onalaska-k12
Operator Name: daniel dh
Comment:

Table of contents

SUMMARY	1
TEST RESULTS	5
TEST SETUP	7
FUNCTIONS	10
SYSTEM INFORMATION	34
LOGGER	37

SUMMARY

Results Summary

Test Status	
Service Configuration Test Status	Completed, Pass
Service Performance Test Status	Completed, Pass
Pass/Fail Verdict	PASS
Start Time	3/31/2023 04:01:30 PM
Duration	00d:00:10:54
Test Recovery	0

EtherSAM

Services Summary			
	Service Name	Service Configuration Test	Service Performance Test
1	Service 1	PASS	PASS

Service Configuration Summary							
	Service Name	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Max Throughput (Mbit/s)	Service Verdict
1	Service 1	L->R	0.0E-00	0.14575		1899.99	PASS
		R->L	0.0E-00	0.06116	3.21679	1899.99	PASS

Service Performance Summary							
	Service Name	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Avg Throughput (Mbit/s)	Service Verdict
1	Service 1	L->R	4.0E-07	0.11903		1899.99	PASS
		R->L	0.0E-00	0.11877	4.82005	1900.00	PASS

VLAN Preservation	No Mismatch Detected
--------------------------	----------------------

RX Power Level		
	Min	Max
Power Range (dBm)	-19.0	-1.0
RX Power Level (dBm)	-2.4	-2.4

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	0.0	0.1

Alarms/Errors

Alarms/Errors List	
Active/Historical Alarms/Errors	None

Interface	
Alarms	Seconds
LOS	0
Frequency	0

Ethernet	
Alarms	Seconds
Link Down	0
Local Fault Detected	0
Local Fault Received	0
Remote Fault	0

Errors	Seconds	Count	Rate
Block	0	0	0.00E00
FCS	0	0	0.00E00
Jabber	0	0	0.00E00
Oversize	Disabled		
Runt	0	0	0.00E00
Undersize	0	0	0.00E00
Total		0	

Clock Sync	
Alarm	Seconds
LOC	0

IP/UDP/TCP			
Errors	Seconds	Count	Rate
IP Checksum	0	0	0.00E00
UDP Checksum	0	0	0.00E00
TCP Checksum	0	0	0.00E00
Total		0	

Setup Summary

Application Type	EtherSAM (Y.1564)
------------------	-------------------

Topology	Single Port
----------	-------------

Interface	Port 1
Interface/Rate	10GE LAN
Connector	SFP+

Flow Control	None
--------------	------

EtherSAM

DTS Enabled	
Remote ID	MAX-860GF1
Nat Router Detection	No NAT
Local WAN IP	N/A
Pass/Fail Verdict	Enabled

Sub-Tests			
Service Configuration Test		Service Performance Test	
Ramp Test	Enabled	Status	Enabled
Burst selection	Disabled	Duration	00d:00:10:00
Duration	00:00:20		

Ramp	
Step Time (s)	5
Step Values	
1	50 %
2	75 %
3	90 %
4	100 %

Services

Total Committed TX Rate (Mbit/s)	L->R	1900.00
	R->L	1900.00

Services Summary									
	Service Name	Profile	Frame Size (Bytes)	Direction	CIR (Mbit/s)	Max Jitter (ms)	Max Latency (ms)	Frame Loss Rate	CBS (Bytes)
1	Service 1	Data	Random	L->R	1900.00	2.00000		1.0E-04	--
				R->L	1900.00	2.00000	28.00000	1.0E-04	

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	46
Broadcast	2	2
Unicast	179889304	179898469
Non-Unicast	2	48
Total	179889306	179898517

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	352	0.0
65 - 127	7433010	4.1
128 - 255	15873862	8.8
256 - 511	31740621	17.6
512 - 1023	63483631	35.2
1024 - 1518	61367041	34.1
> 1518	0	0.0
Total	179898517	

Detailed EtherSAM Results

Service Configuration Test**Service 1 : Service 1**

Committed Steps						
Committed Step	Direction	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	L->R	0.0E-00	0.14575	3.21679	PASS	949.99
	R->L	0.0E-00	0.06116		PASS	950.00
2-75%CIR	L->R	0.0E-00	0.06223	2.98609	PASS	1425.00
	R->L	0.0E-00	0.05145		PASS	1424.99
3-90%CIR	L->R	0.0E-00	0.05559	3.13339	PASS	1710.00
	R->L	0.0E-00	0.04704		PASS	1710.00
CIR	L->R	0.0E-00	0.05304	2.98660	PASS	1899.99
	R->L	0.0E-00	0.05710		PASS	1899.99

Service Performance Test

Service 1 : Service 1

	Direction	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	L->R	1899.99	1896.33	1903.67	N/A
	R->L	1900.00	1899.95	1900.04	N/A
Jitter (ms)	L->R	0.00323	< 0.00001	0.11903	0.00225
	R->L	0.00385	< 0.00001	0.11877	0.00304
Latency (ms)	Round-trip	2.67944	2.65223	4.82005	N/A
		Seconds	Count	Rate	
Frame Loss	L->R	8	70	4.0E-07	
	R->L	0	0	0.0E00	
Out-of-Sequence	L->R	0	0	0.0E00	
	R->L	0	0	0.0E00	

TEST SETUP

Clock Synchronization

Clock Mode	Internal
------------	----------

Detailed Services Configuration

IP Version	IPv4	
Layer Mode	Mixed	
Global Pass/Fail Verdict	Enabled	
	L->R	R->L
Total Committed TX Rate (Mbit/s)	1900.00	1900.00

Service 1

Service Profile	
Service Name	Service 1
Profile	Data
Frame Size Type	Random

SLA Parameters		
	L->R	R->L
Information Rate		
CIR (Mbit/s)	1900.00	1900.00
Performance Criteria		
Max Jitter (ms)	2.00000	2.00000
Max Latency (ms)	28.00000	28.00000
Frame Loss Rate	1.0E-04	

Test Parameters		
	L->R	R->L

Framing		
Frame Format	Ethernet II	
Network Layer	IPv4	
Transport Layer	UDP	
	L->R	R->L
VLAN	None	None

Addressing

		MAC	IP Address	UDP Port
L->R	Source	00:03:01:F8:22:DD	10.112.0.1 / 255.255.255.0	49184
	Destination	00:03:01:13:AD:F1	10.112.0.100	7
R->L	Source	00:03:01:13:AD:F1	10.112.0.100 / 255.255.255.0	7
	Destination	00:03:01:F8:22:DD	10.112.0.1	49184

	L->R	R->L
EtherType	0x0800	0x0800
Automatic IP (DHCP)	Disabled	No
TTL	128	128
TOS	0x00	0
Default Gateway	Disabled	Disabled

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:F8:22:DD
Source IP Address	10.112.0.1 (Stream 1)
Destination IP Address	10.112.0.100

Ping	
Timeout (ms)	1000
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Results		
No.	Status	Reply Details
659	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
660	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
661	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
662	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
663	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
664	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
665	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
666	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
667	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
668	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
669	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
670	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
671	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127

[illegible]

[illegible]

758	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
759	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
760	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
761	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
762	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
763	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
764	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
765	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
766	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
767	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
768	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
769	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
770	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
771	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
772	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
773	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
774	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
775	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
776	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
777	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
778	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
779	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
780	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
781	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
782	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
783	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
784	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
785	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
786	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
787	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
788	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
789	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
790	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
791	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
792	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
793	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
794	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
795	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
796	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
797	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
798	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
799	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
800	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

1618	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1619	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1620	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1621	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1622	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1623	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1624	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1625	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1626	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1627	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1628	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1629	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1630	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1631	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1632	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1633	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1634	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1635	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1636	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1637	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1638	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1639	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1640	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1641	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1642	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1643	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1644	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1645	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1646	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1647	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1648	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1649	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1650	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1651	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1652	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1653	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1654	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1655	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1656	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1657	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127
1658	Successful	IP=10.112.0.100, Bytes=32, Time=3 ms, TTL=127

Ping Statistics	
Packets Transmitted	1658
Packets Received	1248
Percentage Lost (%)	24.7
Minimum Round Trip Time (ms)	3
Maximum Round Trip Time (ms)	23
Average Round Trip Time (ms)	3

SYSTEM INFORMATION

Product Name	Power Blazer Series
Version	Power Blazer Series 1.100
Module ID	FTBx-8870
Slot ID	1
Software Product Version	1.100.0.55
	Power Blazer Series 1.100
Assembly Hardware Revision	B
Serial Number	1343183
Calibration Date	4/20/2020 9:30:00 PM

Pluggable Module

Module ID	SFP+
Vendor Name	WFS
Part Number	10GB-SFP-LR-JN
Serial Number	WFJNXPL917
Hardware Revision	1.0
Connector Type	LC
Speed	10G
Type/Compliance Code	LR, 10.0 km (SMF)
Wavelength	1310 nm
Mode	Single-Mode Fiber
Power Class	Power Class 1 Module (<= 1W max)
Temperature (Max)	28.4 °C

Software Options

100electrical	Ethernet 100Base-TX (Electrical) Interface	Enabled
100optical	Ethernet 100Base-FX (Optical) Interface	Disabled
10electrical	Ethernet 10Base-T (Electrical) Interface	Enabled
10G_LAN	Ethernet 10G LAN optical interface	Enabled
10G_WAN	Ethernet 10G WAN optical interface	Enabled
155M	155 Mbit/s	Disabled
1588PTP	1588 Precision Time Protocol	Disabled
2488M	2.488 Gbit/s	Disabled
52M	52 Mbit/s	Enabled
622M	622 Mbit/s	Disabled
9953M	9.953 Gbit/s	Disabled
Cable_Test	Cable Test	Disabled
CPRI	CPRI 2.4576 Gbit/s and 3.072 Gbit/s	Disabled

CPRI-1.2G	CPRI 1.2288 Gbit/s	Disabled
CPRI-10.1G	CPRI 10.1376 Gbit/s	Disabled
CPRI-4.9G	CPRI 4.9152 Gbit/s	Disabled
CPRI-6.1G	CPRI 6.144 Gbit/s	Disabled
CPRI-9.8G	CPRI 9.8304 Gbit/s	Disabled
DS1-FDL	DS1/1.5M Facility Data Link	Disabled
DSn	Digital Signal (DS1, DS3)	Disabled
eCPRI-10G	eCPRI over 10G Ethernet	Disabled
EoE	Ethernet over Ethernet Encapsulation (10GE and less)	Disabled
EoOTN	Ethernet over Optical Transport Network	Disabled
ETH-OAM	Carrier Ethernet OAM Test Application	Disabled
FC-10X	Fibre Channel 10X	Disabled
FC-1X	Fibre Channel 1X	Disabled
FC-2X	Fibre Channel 2X	Disabled
FC-4X	Fibre Channel 4X	Disabled
FC-8X	Fibre Channel 8X	Disabled
GCC-BERT	OTN Overhead BERT and Synchronization Validation	Disabled
GigE_Electrical	Ethernet 1000Base-T (Electrical) Interface	Enabled
GigE_Optical	Ethernet 1000Base-X (Optical) Interface	Enabled
iOptics	Intelligent Pluggable Optic Test Application	Disabled
iSAM	Intelligent Service Activation Methodology	Disabled
L2-Transparency	L2CP Handling Test in EtherSAM	Disabled
LINK-OAM	Link OAM	Disabled
MPLS	MPLS Encapsulation (10GE and less)	Disabled
NI-CSU	NI/CSU Emulation	Disabled
OBSAI	OBSAI 3.072 Gbit/s	Disabled
OBSAI-1.5G	OBSAI 1.536 Gbit/s	Disabled
OBSAI-6.1G	OBSAI 6.144 Gbit/s	Disabled
ODU0	OTN ODU0	Disabled
ODUflex	OTN ODUflex	Disabled
ODUMUX	ODU Multiplexing Payload Type 20 and 21	Disabled
OTN-INTR-THRU	OTN Intrusive Through Mode	Disabled
OTU1	Optical Transport Unit-1 (2.7 Gbit/s)	Disabled
OTU2	Optical Transport Unit-2 (10.7 Gbit/s)	Disabled
OTU2-1e-2e	Optical Transport Unit-2 Overclocked (11.049/11.096 Gbit/s)	Disabled
OTU2-1f-2f	Optical Transport Unit-2 Overclocked (11.270/11.317 Gbit/s)	Disabled
PBBTE	Provider Backbone Bridge Encapsulation (10GE and less)	Disabled
PDH	Plesiochronous Digital Hierarchy (E1, E3, E4)	Disabled
RFC6349	RFC 6349 Test Application (25GE and less)	Disabled
SDH	Synchronous Digital Hierarchy	Enabled
SONET	Synchronous Optical Network	Enabled
SyncE	Synchronous Ethernet	Disabled
TCM	Tandem Connection Monitoring HO/LO	Disabled
TCP-THPUT	Tcp Throughput Test Application	Disabled
TST-OAM	Test Over Service OAM	Disabled

LOGGER

ID	Start Time	Event	Duration	Details
1	03/31 04:01:30 PM	Test Started		2023-03-31
2	03/31 04:01:36 PM	Service Configuration test started		2023-03-31
3	03/31 04:02:12 PM	Service Performance test started		2023-03-31
4	03/31 04:12:24 PM	Test Stopped		 PASS