



FTBx-8870 Report

PASS

Report Header: EXFO Inc.
Report Title:
Report Date: 3/11/2021 10:28:44 AM
Type: EtherSAM (Y.1564)

Job Information

Job ID:
Circuit ID: Zply:86/L4XN/717452//NWFC
Contractor Name:
Customer Name: snohomish-k12
Operator Name:
Comment:

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SUMMARY

Results Summary

Test Status	
Service Configuration Test Status	Completed, Pass
Service Performance Test Status	Completed, Pass
Pass/Fail Verdict	PASS
Start Time	3/11/2021 10:15:41 AM
Duration	00d:00:10:48
Test Recovery	0

EtherSAM

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

Service Configuration Summary						
	Service Name	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Max Throughput (Mbit/s)	Service Verdict
1	Service 1	0.0E-00	0.01561	1.76943	4949.99	PASS

Service Performance Summary						
	Service Name	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Avg Throughput (Mbit/s)	Service Verdict
1	Service 1	0.0E-00	0.01280	1.76814	4949.99	PASS

VLAN Preservation	No Mismatch Detected
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RX Power Level		
	Min	Max
Power Range (dBm)	-15.0	0.5
RX Power Level (dBm)	-3.1	-3.1

RX Frequency		
	Max Negative Offset	Max Positive Offset
Frequency Offset (ppm)	-0.4	0.0

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

Flow Control	None
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EtherSAM

Pass/Fail Verdict	Enabled
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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)	4950.00
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Services Summary								
	Service Name	Profile	Frame Size (Bytes)	CIR (Mbit/s)	Max Jitter (ms)	Max Latency (ms)	Frame Loss Rate	CBS (Bytes)
1	Service 1	Data	Random	4950.00	2.00000	28.00000	1.0E-04	--

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	23
Broadcast	2	0
Unicast	469783988	469783987
Non-Unicast	2	23
Total	469783990	469784010

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	324295	0.0
65 - 127	20331311	4.3
128 - 255	41338252	8.7
256 - 511	82651220	17.5
512 - 1023	165321293	35.1
1024 - 1518	159817639	34.0
> 1518	0	0.0
Total	469784010	

Detailed EtherSAM Results

Service Configuration Test

Service 1 : Service 1

Committed Steps					
Committed Step	Frame Loss Rate	Max Jitter (ms)	Max Latency (ms)	Verdict	Avg Throughput (Mbit/s)
1-50%CIR	0.0E-00	0.01561	1.76943	PASS	2474.98
2-75%CIR	0.0E-00	0.01259	1.76629	PASS	3712.50
3-90%CIR	0.0E-00	0.01035	1.76563	PASS	4454.99
CIR	0.0E-00	0.01008	1.76569	PASS	4949.99

Service Performance Test

Service 1 : Service 1

	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	4949.99	4949.96	4950.03	N/A
Jitter (ms)	0.00097	< 0.00001	0.01280	0.00076
Latency (ms)	1.75785	1.75150	1.76814	N/A
	Seconds	Count	Rate	
Frame Loss	0	0	0.0E00	
Out-of-Sequence	0	0	0.0E00	

TEST SETUP

Clock Synchronization	
Clock Mode	Internal

Detailed Services Configuration

Layer Mode	Mixed
IP Version	IPv4
Global Pass/Fail Verdict	Enabled
Total Committed TX Rate (Mbit/s)	4950.00

Service 1

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

SLA Parameters	
Information Rate	
CIR (Mbit/s)	4950.00
Performance Criteria	
Max Jitter (ms)	2.00000
Max Latency (ms)	28.00000
Frame Loss Rate	1.0E-04

Test Parameters

Framing	
Frame Format	Ethernet II
Network Layer	IPv4
Transport Layer	UDP
VLAN	None
MPLS	Disabled

Addressing

	MAC	IP Address	UDP Port
Source	00:03:01:F8:22:D8	10.112.0.1 / 255.255.255.0	49184
Destination	00:03:01:F8:29:9D	10.112.0.100	7

EtherType	0x0800
Automatic IP (DHCP)	Disabled
TTL	128
TOS	0x00
Default Gateway	Disabled

FUNCTIONS

Ping & Trace Route

Network	
Source MAC Address	00:03:01:F8:22:D8
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
142	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
143	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
144	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
145	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
146	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
147	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
148	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
149	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
150	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
151	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
152	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
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161	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
162	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
163	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
164	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127

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208	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
209	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
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212	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
213	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
214	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
215	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
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248	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
249	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
250	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127

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423	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
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1049	Timeout	
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1051	Timeout	
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1078	Timeout	
1079	Timeout	
1080	Timeout	
1081	Timeout	
1082	Timeout	
1083	Timeout	
1084	Timeout	
1085	Timeout	
1086	Timeout	
1087	Timeout	
1088	Timeout	
1089	Timeout	
1090	Timeout	
1091	Timeout	
1092	Timeout	
1093	Timeout	
1094	Timeout	
1095	Timeout	
1096	Timeout	
1097	Timeout	
1098	Timeout	
1099	Timeout	
1100	Timeout	
1101	Timeout	
1102	Timeout	
1103	Timeout	
1104	Timeout	
1105	Timeout	
1106	Timeout	
1107	Timeout	
1108	Timeout	
1109	Timeout	
1110	Timeout	

1111	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1112	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1113	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1114	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1115	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1116	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1117	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1118	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1119	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1120	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1121	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1122	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1123	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1124	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1125	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1126	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1127	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1128	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1129	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1130	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1131	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1132	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1133	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1134	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1135	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1136	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1137	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1138	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1139	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1140	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
1141	User aborted	

Ping Statistics	
Packets Transmitted	1140
Packets Received	416
Percentage Lost (%)	63.5
Minimum Round Trip Time (ms)	2
Maximum Round Trip Time (ms)	3
Average Round Trip Time (ms)	2

Trace Route	
Timeout (ms)	4000
Max Hop Count	128

SYSTEM INFORMATION

Product Name	Power Blazer Series
Version	Power Blazer Series 1.75
Module ID	FTBx-8870
Slot ID	1
Software Product Version	1.75.0.85
	Power Blazer Series 1.75
Assembly Hardware Revision	B
Serial Number	1343184
Calibration Date	4/20/2020 8:28:00 PM

Pluggable Module

Module ID	SFP+
Vendor Name	WFS
Part Number	WFSP-1396-10-J
Serial Number	3172922861
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)	33.5 °C

Software Options

DS1-FDL	DS1/1.5M Facility Data Link	Disabled
CPRI-10.1G	CPRI 10.1376 Gbit/s	Disabled
SDH	Synchronous Digital Hierarchy	Enabled
SONET	Synchronous Optical Network	Enabled
622M	622 Mbit/s	Disabled
eCPRI-10G	eCPRI over 10G Ethernet	Disabled
DSn	Digital Signal (DS1, DS3)	Disabled
PDH	Plesiochronous Digital Hierarchy (E1, E3, E4)	Disabled
155M	155 Mbit/s	Disabled
2488M	2.488 Gbit/s	Disabled
10G_LAN	Ethernet 10G LAN optical interface	Enabled
10G_WAN	Ethernet 10G WAN optical interface	Enabled
L2-Transparency	L2CP Handling Test in EtherSAM	Disabled
TCM	Tandem Connection Monitoring HO/LO	Disabled

G82752	ITU-T G.8275.2 Profile	Disabled
TunableOptics	Tunable Wavelength Support for SFP+	Disabled
9953M	9.953 Gbit/s	Disabled
OTU1	Optical Transport Unit-1 (2.7 Gbit/s)	Disabled
OTU2	Optical Transport Unit-2 (10.7 Gbit/s)	Disabled
100optical	Ethernet 100Base-FX (Optical) Interface	Disabled
GigE_Optical	Ethernet 1000Base-X (Optical) Interface	Enabled
GigE_Electrical	Ethernet 1000Base-T (Electrical) Interface	Enabled
FC-1X	Fibre Channel 1X	Disabled
FC-2X	Fibre Channel 2X	Disabled
TCP-THPUT	Tcp Throughput Test Application	Disabled
100electrical	Ethernet 100Base-TX (Electrical) Interface	Enabled
10electrical	Ethernet 10Base-T (Electrical) Interface	Enabled
ODUMUX	ODU Multiplexing Payload Type 20 and 21	Disabled
FC-10X	Fibre Channel 10X	Disabled
OTU2-1e-2e	Optical Transport Unit-2 Overclocked (11.049/11.096 Gbit/s)	Disabled
FC-4X	Fibre Channel 4X	Disabled
ADV-FILTERS	Advanced Filtering	Disabled
MPLS	MPLS Encapsulation (10GE and less)	Disabled
IPV6	Internet Protocol Version 6 (IPv6) (10GE and less)	Disabled
OTN-INTR-THRU	OTN Intrusive Through Mode	Disabled
EoOTN	Ethernet over Optical Transport Network	Disabled
ETH-THRU	Through Mode Test Application	Disabled
OTU2-1f-2f	Optical Transport Unit-2 Overclocked (11.270/11.317 Gbit/s)	Disabled
Cable_Test	Cable Test	Disabled
ODU0	OTN ODU0	Disabled
ETH-CAPTURE	Ethernet Frame Capture for Advanced Troubleshooting	Disabled
ODUflex	OTN ODUflex	Disabled
TRAFFIC-SCAN	Traffic Scan	Disabled
52M	52 Mbit/s	Enabled
NI-CSU	NI/CSU Emulation	Disabled
FC-8X	Fibre Channel 8X	Disabled
CPRI	CPRI 2.4576 Gbit/s and 3.072 Gbit/s	Disabled
OBSAI	OBSAI 3.072 Gbit/s	Disabled
1588PTP	1588 Precision Time Protocol	Disabled
SyncE	Synchronous Ethernet	Disabled
ETH-OAM	Carrier Ethernet OAM Test Application	Disabled
CPRI-1.2G	CPRI 1.2288 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
DUAL-PORT	Dual Port Test	Disabled
RFC6349	RFC 6349 Test Application (10GE and less)	Disabled
iSAM	Intelligent Service Activation Methodology	Disabled
PoE	Power Over Ethernet	Disabled
LINK-OAM	Link OAM	Disabled

DP-CPRI	Dual Port CPRI	Disabled
TST-OAM	Test Over Service OAM	Disabled
G82751	ITU-T G.8275.1 Profile	Disabled
iOptics	Intelligent Pluggable Optic Test Application	Disabled
EoE	Ethernet over Ethernet Encapsulation (10GE and less)	Disabled
PBBTE	Provider Backbone Bridge Encapsulation (10GE and less)	Disabled
RFC6349-EXFOWorx	Enables EXFO Worx Interop Operation Mode	Disabled
GCC-BERT	OTN Overhead BERT and Synchronization Validation	Disabled
OBSAI-1.5G	OBSAI 1.536 Gbit/s	Disabled
OBSAI-6.1G	OBSAI 6.144 Gbit/s	Disabled
DTS-NAT	NAT Traversal for DTS applications	Disabled

LOGGER

ID	Start Time	Event	Duration	Details
1	03/11 10:15:41 AM	Test Started		2021-03-11
2	03/11 10:15:45 AM	Service Configuration te		2021-03-11
3	03/11 10:16:19 AM	Service Performance tes		2021-03-11
4	03/11 10:26:29 AM	Test Stopped		 PASS