



FTBx-8870 Report

PASS

Report Header: EXFO Inc.
Report Title:
Report Date: 1/21/2021 4:15:25 PM
Type: EtherSAM (Y.1564)

Job Information

Job ID:
Circuit ID: zply: 86/L4XN/717386//NWFC
Contractor Name:
Customer Name: edmonds-ctc
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	1/21/2021 03:47:40 PM
Duration	00d:00:10:49
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	0.03980	2.33487	1949.97	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	0.03005	2.37582	1949.99	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)	-3.0	-3.0

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)	1950.00
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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	1950.00	2.00000	28.00000	1.0E-04	--

TEST RESULTS

Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	24
Broadcast	2	0
Unicast	185058874	185058874
Non-Unicast	2	24
Total	185058876	185058898

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	128073	0.0
65 - 127	8007640	4.3
128 - 255	16279412	8.7
256 - 511	32557846	17.5
512 - 1023	65126354	35.1
1024 - 1518	62959573	34.0
> 1518	0	0.0
Total	185058898	

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	0.03980	2.30206	PASS	975.00
2-75%CIR	0.0E-00	0.02962	2.29395	PASS	1462.49
3-90%CIR	0.0E-00	0.02798	2.29644	PASS	1755.00
CIR	0.0E-00	0.03570	2.33487	PASS	1949.97

Service Performance Test

Service 1 : Service 1

	Average	Minimum	Maximum	Estimate
Throughput (Mbit/s)	1949.99	1949.96	1950.03	N/A
Jitter (ms)	0.00363	< 0.00001	0.03005	0.00428
Latency (ms)	2.27214	2.25629	2.37582	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)	1950.00

Service 1

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

SLA Parameters	
Information Rate	
CIR (Mbit/s)	1950.00
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:CE	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)	500
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Results		
No.	Status	Reply Details
5720	Timeout	
5721	Timeout	
5722	Timeout	
5723	Timeout	
5724	Timeout	
5725	Timeout	
5726	Timeout	
5727	Timeout	
5728	Timeout	
5729	Timeout	
5730	Timeout	
5731	Timeout	
5732	Timeout	
5733	Timeout	
5734	Timeout	
5735	Timeout	
5736	Timeout	
5737	Timeout	
5738	Timeout	
5739	Timeout	
5740	Timeout	
5741	Timeout	
5742	Timeout	

5743	Timeout	
5744	Timeout	
5745	Timeout	
5746	Timeout	
5747	Timeout	
5748	Timeout	
5749	Timeout	
5750	Timeout	
5751	Timeout	
5752	Timeout	
5753	Timeout	
5754	Timeout	
5755	Timeout	
5756	Timeout	
5757	Timeout	
5758	Timeout	
5759	Timeout	
5760	Timeout	
5761	Timeout	
5762	Timeout	
5763	Timeout	
5764	Timeout	
5765	Timeout	
5766	Timeout	
5767	Timeout	
5768	Timeout	
5769	Timeout	
5770	Timeout	
5771	Timeout	
5772	Timeout	
5773	Timeout	
5774	Timeout	
5775	Timeout	
5776	Timeout	
5777	Timeout	
5778	Timeout	
5779	Timeout	
5780	Timeout	
5781	Timeout	
5782	Timeout	
5783	Timeout	
5784	Timeout	
5785	Timeout	

5786	Timeout	
5787	Timeout	
5788	Timeout	
5789	Timeout	
5790	Timeout	
5791	Timeout	
5792	Timeout	
5793	Timeout	
5794	Timeout	
5795	Timeout	
5796	Timeout	
5797	Timeout	
5798	Timeout	
5799	Timeout	
5800	Timeout	
5801	Timeout	
5802	Timeout	
5803	Timeout	
5804	Timeout	
5805	Timeout	
5806	Timeout	
5807	Timeout	
5808	Timeout	
5809	Timeout	
5810	Timeout	
5811	Timeout	
5812	Timeout	
5813	Timeout	
5814	Timeout	
5815	Timeout	
5816	Timeout	
5817	Timeout	
5818	Timeout	
5819	Timeout	
5820	Timeout	
5821	Timeout	
5822	Timeout	
5823	Timeout	
5824	Timeout	
5825	Timeout	
5826	Timeout	
5827	Timeout	
5828	Timeout	

5829	Timeout	
5830	Timeout	
5831	Timeout	
5832	Timeout	
5833	Timeout	
5834	Timeout	
5835	Timeout	
5836	Timeout	
5837	Timeout	
5838	Timeout	
5839	Timeout	
5840	Timeout	
5841	Timeout	
5842	Timeout	
5843	Timeout	
5844	Timeout	
5845	Timeout	
5846	Timeout	
5847	Timeout	
5848	Timeout	
5849	Timeout	
5850	Timeout	
5851	Timeout	
5852	Timeout	
5853	Timeout	
5854	Timeout	
5855	Timeout	
5856	Timeout	
5857	Timeout	
5858	Timeout	
5859	Timeout	
5860	Timeout	
5861	Timeout	
5862	Timeout	
5863	Timeout	
5864	Timeout	
5865	Timeout	
5866	Timeout	
5867	Timeout	
5868	Timeout	
5869	Timeout	
5870	Timeout	
5871	Timeout	

5872	Timeout	
5873	Timeout	
5874	Timeout	
5875	Timeout	
5876	Timeout	
5877	Timeout	
5878	Timeout	
5879	Timeout	
5880	Timeout	
5881	Timeout	
5882	Timeout	
5883	Timeout	
5884	Timeout	
5885	Timeout	
5886	Timeout	
5887	Timeout	
5888	Timeout	
5889	Timeout	
5890	Timeout	
5891	Timeout	
5892	Timeout	
5893	Timeout	
5894	Timeout	
5895	Timeout	
5896	Timeout	
5897	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5898	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5899	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5900	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5901	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5902	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5903	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5904	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5905	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5906	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5907	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5908	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5909	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5910	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5911	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5912	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5913	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
5914	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127

[illegible]

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6689	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6690	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6691	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6692	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6693	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6694	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6695	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6696	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6697	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6698	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6699	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6700	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6701	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6702	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6703	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6704	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6705	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6706	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6707	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6708	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6709	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6710	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6711	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6712	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6713	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6714	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6715	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6716	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6717	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6718	Successful	IP=10.112.0.100, Bytes=32, Time=2 ms, TTL=127
6719	User aborted	

Ping Statistics	
Packets Transmitted	6718
Packets Received	894
Percentage Lost (%)	86.7
Minimum Round Trip Time (ms)	2
Maximum Round Trip Time (ms)	2
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)	32.9 °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	01/21 03:47:40 PM	Test Started		2021-01-21
2	01/21 03:47:45 PM	Service Configuration te		2021-01-21
3	01/21 03:48:19 PM	Service Performance tes		2021-01-21
4	01/21 03:58:29 PM	Test Stopped		 PASS