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FTBx-88260 Report

| MLB-LOOPBACK_BERT |

PASS

Report Header:
Report Title: MLB-LOOPBACK_BERT
Report Date: 05/05/2023 02:00:19 PM
Type: EtherBERT - A1: Framed / A2: Framed

Job Information

Job ID: TW-230502-1
Circuit ID:
Contractor Name:
Customer Name: VITEX
Operator Name: rko
Comment: MLB-LOOPBACK_BERT

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SUMMARY

Results Summary

Test Status	
Test Status	Completed
Pass/Fail Verdict	PASS
Start Time	05/04/2023 05:25:59 PM
Duration	00d:20:33:46
Test Recovery	0

	Port A1	Port A2
BER Pass/Fail Verdict	PASS	PASS

BER Alarms	Port A1	Port A2
	Seconds	Seconds
No Traffic	0	0
Pattern Loss	0	0

BER Errors	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
Bit Error	0	0	0.00E00	0	0	0.00E00
Mismatch '0'	0	0	0.00E00	0	0	0.00E00
Mismatch '1'	0	0	0.00E00	0	0	0.00E00

Traffic	Port A1	Port A2
	Frame Count	Frame Count
Total TX	4406145163815	4406145161441
Total RX	4406145163815	4406145161441

RX Power Level				
Power Range (dBm)	Port A1		Port A2	
	Min	Max	Min	Max
	-9.50	2.40	-11.00	3.38
Optical Lane	RX Power Level (dBm)		RX Power Level (dBm)	
	Min	Max	Min	Max
0	-0.11	0.38	-1.19	-0.61
1	0.05	0.57	-1.06	-0.48
2	-0.43	0.10	-0.94	-0.25
3	-0.95	-0.39	-0.82	-0.25

Port A1

RX Frequency		
XLAUI Lane	Frequency Offset (ppm)	
	Max Negative Offset	Max Positive Offset
0	0.0	0.0
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0

Port A2

RX Frequency		
XLAUI Lane	Frequency Offset (ppm)	
	Max Negative Offset	Max Positive Offset
0	0.0	0.0
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0

Alarms/Errors

Alarms/Errors List	
Port A1 Active/Historical Alarms/Errors	None
Port A2 Active/Historical Alarms/Errors	None

Port A1

Interface				
Optical Lane	LOS Seconds	XLAUI Lane	LOC Lane Seconds	Frequency Seconds
0	0	0	0	0
1	0	1	0	0
2	0	2	0	0
3	0	3	0	0

Port A2

Interface				
Optical Lane	LOS Seconds	XLAUI Lane	LOC Lane Seconds	Frequency Seconds
0	0	0	0	0
1	0	1	0	0
2	0	2	0	0
3	0	3	0	0

Clock Sync	Port A1	Port A2
Alarms	Seconds	Seconds
LOC	0	0

Ethernet	Port A1	Port A2
Alarms	Seconds	Seconds
Link Down	0	0
Local Fault Detected	0	0
Local Fault Received	0	0
Remote Fault	0	0
Hi-BER	0	0

Errors	Seconds	Count	Rate	Seconds	Count	Rate
FCS	0	0	0.00E00	0	0	0.00E00
Jabber	0	0	0.00E00	0	0	0.00E00
Oversize	Disabled			Disabled		
Runt	0	0	0.00E00	0	0	0.00E00
Undersize	0	0	0.00E00	0	0	0.00E00
Total		0			0	
PCS Lanes						
Alarms	Seconds			Seconds		
LOA	0			0		
Invalid Mapping	0			0		

PCS Lane	Port A1			Port A2		
Alarms	LOBL	LOAML	Excessive Skew	LOBL	LOAML	Excessive Skew
	Seconds	Seconds	Seconds	Seconds	Seconds	Seconds
0	0	0	0	0	0	0
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0

	Port A1	Port A2
Skew Alarm Threshold (bits)	1856	1856

PCS Lane	Port A1			Port A2		
Errors	Seconds	Count	Rate	Seconds	Count	Rate
	Block			Block		
0	0	0	0.00E00	0	0	0.00E00
1	0	0	0.00E00	0	0	0.00E00
2	0	0	0.00E00	0	0	0.00E00
3	0	0	0.00E00	0	0	0.00E00

PCS Lane Errors	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
	Invalid Marker			Invalid Marker		
0	0	0	0.00E00	0	0	0.00E00
1	0	0	0.00E00	0	0	0.00E00
2	0	0	0.00E00	0	0	0.00E00
3	0	0	0.00E00	0	0	0.00E00

PCS Lane Errors	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
	BIP-8			BIP-8		
0	0	0	0.00E00	0	0	0.00E00
1	0	0	0.00E00	0	0	0.00E00
2	0	0	0.00E00	0	0	0.00E00
3	0	0	0.00E00	0	0	0.00E00

BER Alarms	Port A1	Port A2
	Seconds	Seconds
No Traffic	0	0
Pattern Loss	0	0

BER Errors	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
Bit Error	0	0	0.00E00	0	0	0.00E00
Mismatch '0'	0	0	0.00E00	0	0	0.00E00
Mismatch '1'	0	0	0.00E00	0	0	0.00E00

Setup Summary

	Port A1	Port A2
Application Type	EtherBERT - Framed	EtherBERT - Framed

Topology	Dual Port	
Interface	Port A1	Port A2
Interface/Rate	40GE (4 Lanes) [41.25 Gbit/s]	40GE (4 Lanes) [41.25 Gbit/s]
Connector	QSFP28	QSFP28

Port A1

Flow Control	None
Remote Fault Emulation	Disabled

Port A2

Flow Control	None
Remote Fault Emulation	Disabled

Port A1 Framing: MAC

IP Version	IPv4
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	MAC
Source	00:03:01:13:FD:5B
Destination	FE:FE:FE:FE:FE:FE

EtherType	0x88B7
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Port A2 Framing: MAC

IP Version	IPv4
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	MAC
Source	00:03:01:13:FD:5C
Destination	FE:FE:FE:FE:FE:FE

EtherType	0x88B7
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BER

Pattern	Port A1	Port A2
TX	PRBS31 Non-Inverted	PRBS31 Non-Inverted
RX	PRBS31 Non-Inverted	PRBS31 Non-Inverted

Bit Error	Port A1	Port A2
Pass/Fail Verdict	Bit Error Rate	Bit Error Rate
BER Threshold	1.0E-12	1.0E-12

Service Disruption	Port A1	Port A2
	Disabled	Disabled
No Traffic Time (ms)	Disabled	Disabled
Debounce Time (ms)		

	Port A1	Port A2
Frame Size Type	Fixed	Fixed
Frame Size (Bytes)	64	64
TX Rate (%)	100.0000	100.0000

TEST RESULTS

Port A1 Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	0
Broadcast	0	0
Unicast	4406145163815	4406145163815
Non-Unicast	0	0
Total	4406145163815	4406145163815

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	4406145163815	100.0
65 - 127	0	0.0
128 - 255	0	0.0
256 - 511	0	0.0
512 - 1023	0	0.0
1024 - 1518	0	0.0
> 1518	0	0.0
Total	4406145163815	

Port A2 Ethernet Traffic

Frame Type	TX Count	RX Count
Multicast	0	0
Broadcast	0	0
Unicast	4406145161441	4406145161441
Non-Unicast	0	0
Total	4406145161441	4406145161441

Frame Size (Bytes)	RX Count	%
< 64	0	0.0
64	4406145161441	100.0
65 - 127	0	0.0
128 - 255	0	0.0
256 - 511	0	0.0
512 - 1023	0	0.0
1024 - 1518	0	0.0
> 1518	0	0.0
Total	4406145161441	

FUNCTIONS

40/100G Advanced

Lanes Mapping & Skew Port A1

TX		XLAUI Lane	RX	
PCS Lane	Skew (bits)		Skew (bits)	PCS Lane
0	0	0	22	0
1	0	1	15	1
2	0	2	0	2
3	0	3	52	3

Lanes Mapping & Skew Port A2

TX		XLAUI Lane	RX	
PCS Lane	Skew (bits)		Skew (bits)	PCS Lane
0	0	0	65	0
1	0	1	215	1
2	0	2	189	2
3	0	3	0	3

PCS Lane	Port A1			Port A2		
	LOBL	LOAML	Excessive Skew	LOBL	LOAML	Excessive Skew
	Seconds	Seconds	Seconds	Seconds	Seconds	Seconds
0	0	0	0	0	0	0
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0

	Port A1	Port A2
Skew Alarm Threshold (bits)	1856	1856

PCS Lane	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
	Block			Block		
0	0	0	0.00E00	0	0	0.00E00
1	0	0	0.00E00	0	0	0.00E00
2	0	0	0.00E00	0	0	0.00E00
3	0	0	0.00E00	0	0	0.00E00

PCS Lane Errors	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
	Invalid Marker			Invalid Marker		
0	0	0	0.00E00	0	0	0.00E00
1	0	0	0.00E00	0	0	0.00E00
2	0	0	0.00E00	0	0	0.00E00
3	0	0	0.00E00	0	0	0.00E00

PCS Lane Errors	Port A1			Port A2		
	Seconds	Count	Rate	Seconds	Count	Rate
	BIP-8			BIP-8		
0	0	0	0.00E00	0	0	0.00E00
1	0	0	0.00E00	0	0	0.00E00
2	0	0	0.00E00	0	0	0.00E00
3	0	0	0.00E00	0	0	0.00E00

Port A1 Ping & Trace Route

Network	
Source MAC Address	00:03:01:13:FD:5B
Source IP Address	10.10.253.91
Destination IP Address	0.0.0.0

Port A1 Ping

Timeout (ms)	4000
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Statistics

Packets Transmitted	--
Packets Received	--
Percentage Lost (%)	--
Minimum Round Trip Time (ms)	--
Maximum Round Trip Time (ms)	--
Average Round Trip Time (ms)	--

Port A1 Trace Route

Timeout (ms)	4000
Max Hop Count	128

Port A2 Ping & Trace Route

Network

Source MAC Address	00:03:01:13:FD:5C
Source IP Address	10.10.253.92
Destination IP Address	0.0.0.0

Port A2 Ping

Timeout (ms)	4000
Delay (ms)	1000
Data Size (Bytes)	32
TTL	128
Type Of Service (TOS)	0x00

Ping Statistics

Packets Transmitted	--
Packets Received	--
Percentage Lost (%)	--
Minimum Round Trip Time (ms)	--
Maximum Round Trip Time (ms)	--
Average Round Trip Time (ms)	--

Port A2 Trace Route

Timeout (ms)	4000
Max Hop Count	128

SYSTEM INFORMATION

Product Name	Power Blazer Series
Version	Power Blazer Series 1.100
Module ID	FTBx-88260
Slot ID	1
Software Product Version	1.100.0.55
	Power Blazer Series 1.100
Assembly Hardware Revision	B
Serial Number	1592807
Calibration Date	05/10/2022 02:58:00 AM

Transceiver System

	Port A1	Port A2
Transceiver System Insertion Counter	11	11
ID	TA-QSFP28	TA-QSFP28
Serial Number	1592310	1592310
Revision	B	B
Battery	Good	Good
Optical Module Insertion Counter	106	61

Pluggable Module

	Port A1	Port A2
Module ID	QSFP+	QSFP+
Vendor Name	Lightbolt	Vitex
Part Number	LBX-TQ040SR4-M1A	VQ-40SR4-CP-AA
Serial Number	M9D16862	T2036B0461
Hardware Revision	01	
Revision Compliance	0	7
Connector Type	MPO	MPO
Speed	41.25 Gbit/s	41.25 Gbit/s
Type/Compliance Code	40GE-SR4-100m, 300.0 m	40GE-SR4-100m, 100.0 m
Mode	MMF (OM3)	MMF (OM3)
Power Class	Power Class 4 (<= 3.5W) PowerMax: 25.5	Power Class 1 (<= 1.5W) PowerMax: 0.0
Temperature (Max)	37.8 °C	35.8 °C
CLEI Code		

LOGGER

ID	Start Time	Event	Duration	Details
1	05/04 05:25:59 PM	Test Started		2023-05-04
2	05/05 01:59:45 PM	Test Stopped		 PASS