Document Information

Report Name	BERT
File Name	20240719_1700_LANEX_28223_28227
Customer	
Project	LANEX 28223 28227
Operator	Fibernet
Notes	

Module Type	Serial no	Performance Verification Date	Performance Verification Due Date	Software Version
MT1000A	6261840398	2018-02-26	2019-02-26	9.06
MU100011A	6261833561	2018-02-26	2019-02-26	

BERT Summary

Start at	2024-07-19 15:57:08
Stop at	2024-07-22 09:37:36

GPS status	Not available

Result summary	Pass

Port 1:2	Pass/Fail
BER	-
Service disruption	-
Sequence errors	-
Port thresholds	-

Ethernet: BERT(Port 1:2)

BERT	Count	Ratio
Pattern Bit Count	225 781 345 784 096	
Pattern Errors	0	0.00
Seq. Errors	0	
Seq. Sync. Lost	0	
Frame Loss	0	
Frame Loss Secs.	0	

Service disruption	Seconds	Count

M.2100	Seconds	Ratio
ES	0	0.00 %
SES	0	0.00 %
ALS	0	0.00 %
UAT	0	0.00 %
AVT	236 425	100.00 %
EFS	236 425	100.00 %

Throughput	Min.	Max.	Avg.
Data layer	N/A	N/A	N/A
Network layer	N/A	N/A	N/A
Link layer	963 595 088	963 603 136	963 601 532
Phys.(-preamble)	980 836 352	980 844 544	980 842 911
Physical layer	988 499 136	988 507 392	988 505 747
Utilization layer	999 993 312	1 000 001 664	999 999 999

	Min.	Max.	Avg.
Latency	N/A	N/A	N/A

	Min.	Max.	Avg.
Jitter	N/A	N/A	N/A

Ethernet: Performance(Port 1:2)

Frequency	
Min. Deviation	-1.4 ppm
Max. Deviation	0.1 ppm
Avg. Deviation	-1.0 ppm

Utilization	
Avg. Utilization	100.0001 %
Max. Utilization	100.0003 %
Min. Utilization	99.9993 %

Throughput	
Avg. Throughput	980 842 911 bps
Max. Throughput	980 844 544 bps
Min. Throughput	980 836 352 bps

Frame rate	
Avg. Frame Rate	119 731 fps
Max. Frame Rate	119 732 fps
Min. Frame Rate	119 731 fps

Ethernet: Frame(Port 1:2)

Alarms	Seconds	Ratio
LOS	0	0.00 %
Link	0	0.00 %
Remote Fault	N/A	N/A

Good Frames	Count	Ratio
Rx Total Frame	28 307 590 996	100.00 %
Rx Good Frame	28 307 590 996	100.00 %
Rx Unicast Frame	28 307 590 996	100.00 %
Rx Multicast Frame	0	0.00 %
Rx Broadcast Frame	0	0.00 %
Pause Frame	0	0.00 %
VLAN Frame	0	0.00 %
MPLS Frame	0	0.00 %
MPLS-TP Frame	0	0.00 %
PBB Frame	0	0.00 %
VLAN Max Level	N/A	N/A
VLAN Min Level	N/A	N/A
MPLS Max Level	N/A	N/A
MPLS Min Level	N/A	N/A

Errored Frames	Count	Ratio
Rx Errored Frame	0	0.00 %
Fragmented	0	0.00 %
Oversized	0	0.00 %
Undersized	0	0.00 %
Rx FCS Errored Frame	0	0.00 %
Error symbol	0	0.00 %
Oversized & FCS errored	0	0.00 %
IP checksum errored	0	0.00 %

Other Frames	Count	Ratio
Collisions	0	0.00 %
Preamble violations	0	0.00 %
IFG violations	0	0.00 %

Last Received	ID	Priority
VLAN 1	N/A	N/A
VLAN 2	N/A	N/A
VLAN 3	N/A	N/A
VLAN 4	N/A	N/A
VLAN 5	N/A	N/A
VLAN 6	N/A	N/A
VLAN 7	N/A	N/A
VLAN 8	N/A	N/A

Last Received	Label	Priority	TTL
MPLS 1	N/A	N/A	N/A
MPLS 2	N/A	N/A	N/A
MPLS 3	N/A	N/A	N/A
MPLS 4	N/A	N/A	N/A
MPLS 5	N/A	N/A	N/A
MPLS 6	N/A	N/A	N/A

MPLS 7	N/A	N/A	N/A
MPLS 8	N/A	N/A	N/A

Last Received	ID	Priority
B-Tag	N/A	N/A
I-Tag	N/A	N/A

Frame diff.	Tx - Rx1:2
Frame diff.	0

Ethernet: Burst(Port 1:2)

Frames	Count	Ratio
Rx Total Frame	28 307 590 996	100.00 %
Rx Good Frame	28 307 590 996	100.00 %
Bursted	28 307 590 996	100.00 %
Number of Bursts	90	

Burst Size	Frames	Bytes
Avg. burst size	314 528 789	322 077 479 777
Min. burst size	110 925	113 587 200
Max. burst size	58 175 649	59 571 864 576

Ethernet: Size Distribution(Port 1:2)

Total Frames	Frames	Ratio
Rx Total Frame	28 307 590 996	100.00 %
Rx Good Frame	28 307 590 996	100.00 %

Size Dist.	Frames	Ratio
Rx 64-127	0	0.00 %
Rx 128-255	0	0.00 %
Rx 256-511	0	0.00 %
Rx 512-1023	0	0.00 %
Rx 1024-1518	28 307 590 996	100.00 %
Rx Jumbo	0	0.00 %

Frame Size	Bytes
Avg. Frame Size	1 024 bytes
Min. Frame Size	1 024 bytes
Max. Frame Size	1 024 bytes

Ethernet: Transmit(Port 1:2)

Traffic	Tx	Rx
Frames	28 307 590 996	28 307 590 996
Bytes	28 986 973 179 904	28 986 973 179 904
Unicast	28 307 590 996	28 307 590 996
Multicast	0	0
Broadcast	0	0
Errored	0	0
FCS errored	0	0
64-127	0	0
128-255	0	0
256-511	0	0
512-1023	0	0
1024-1518	28 307 590 996	28 307 590 996
Jumbo	0	0

Ethernet: Conditions(Port 1:2)

Event Log Filter

Filter	Off
Event	Off
Number range	Off
Date/Time range	Off

Event Log

No.	Time	Port	Type	Src.	Description	Dur./Count
1	2024-07-19 15:57:08		Test	Test	Started	
2	2024-07-20 21:17:09		Test	Test	Memory for Statistics reached full!	
3	2024-07-22 09:37:36		Test	Test	Stopped	

BERT options

BERT Options	
Include addresses in frame filter on receiver	Off
Count lost frames as pattern errors	Off
Only show BER Alarms when measuring	Off
Ignore the Frame loss secs on BERT statistics	Off
Ignore the Frame/Pattern loss secs on BERT statistics	Off

BERT threshold monitoring

BERT Threshold Monitoring	Port 1:2
Pattern Errors	Off
Sequence errors	Off

Test Setup: Control

Interval length	5 seconds
Memory allocation	Continuous
Start action	Immediate
Stop function	Manual stop

Performance parameters	
ETH	M.2100

Port Settings

Clock Configuration	Port 1:2
Timing source	Internal
Timing source status	Disabled

Port Setup	Port 1:2
Port Mode	Forced
Speed/Duplex	1000 FDX
Interface Type	SFP

Traffic	Port 1:2
Traffic Duration	Continuous
Lineload Unit	Percent
Automatically start the traffic generator when a test is started	Off
Stream 1:	
Transmitting mode	Normal
Line load	100.0000 %
Line load	Constant
Line load start	Off
Line load end	Off
Step size	1.0000 %
Step duration	10 sec
Ramp mode	Keep end
Frame size	Constant
Frame size start	1024 bytes
Jitter	Off
Latency	Off
Service disruption enable	Off
Version 9.05 or older	Off
Source	Internal
GPS antenna cable	0 ns

Stream Setup	Port1, Stream1
Layer 4	None
Layer 3	None
Ethernet	
ETH	On
Destination MAC address	00-00-00-00-00-00
ARP	Off
NDP (NS/NA)	Off
Broadcast frame ratio	0.0 %
Source MAC address	00-00-00-00-00-00
MPLS	
MPLS	Off
Level count	1
MPLS 1	Label:0 EXP:0 Stack:1 TTL:32
MPLS-TP	
MPLS-TP	Off
MPLS-TP control word enable	On
Auto increment	Off
MPLS destination MAC address	00-00-00-00-00-00
MPLS source MAC address	00-00-00-00-00-00
PBB	
PBB enable	Off
PBB destination address	00-00-00-00-00-00
PBB source address	00-00-00-00-00-00
B-Tag VID	0
B-Tag DEI	Off
B-Tag PCP	0

I-Tag SID	0
I-Tag DEI	Off
I-Tag PCP	0
I-Tag UCA	Off
VLAN	
VLAN	Off
Level count	1
VLAN 1	ID:0 DEI:0 Priority:0 Ethertype:0x8100
LLC	
LLC1	Off
DSAP	0
SSAP	0
Control	0
SNAP	
SNAP	Off
Protocol ID	0
Custom	
Custom Layer	Off
Length	14
Custom pattern	00 00 00 00 00 00 00 00 00 00 00 00 00 00
Payload	
Payload pattern	PRBS31
User 32 bit	0
Cross pattern at successive frames	Off
Variable 1	
Type of field No.1	Off
Variable position offset	0
Variable position length	0
Start value of variable	0
End value of variable	0
Step of variable	1
Variable 2	
Type of field No.2	Off
Offset	0
Length	0
Start	0
End	0
Step	1

Filter	Port 1:2
Enable filters	Off
Pattern Offset	2
Ether type	Off
SNAP	Off
LLC	Off

Threshold	Port 1:2
Ethernet	Off
Frame diff.	Tx - Rx1:2
Utilization (%)	-
Throughput (Mbps)	-
Errored frames	-
Collisions	-
Unicast frames	-
Multicast frames	-

Broadcast frames	-
Pause frames	-
Fragmented frames	-
Undersized frames	-
Oversized frames	-
FCS errored frames	-
IFG violations	-
Preamble violations	-
Diff. Tx - Rx	-
Oversized & FCS errored frames	-
IP checksum errored frames	-

Settings	
Answer incoming ARP requests	Off
Answer incoming NDP(NS) requests	Off
Answer incoming Ping requests	Off
Filter IFG violations caused by master/slave clock synchronization	On
Expected preamble length	8 bytes
IFG lower threshold	12 bytes
Jumbo frame size upper limit	9018 bytes
Respond to PAUSE frame	Off
Accept Network Master configuration frames	Off
Ignore preamble violations	Off
Allow changes to interface setup while a test is running	Off
Compatible pattern with CMA3000	Off

In-band Setup	
Allow In-band control	Off
Default	On
Src IP	192.168.1.1
Network Mask	255.255.255.0
Gateway	Off
Src TCP Port	0
Use VLAN	Off
ID	0
	Off

SyncE	Port 1:2
Enable SyncE	Off
SyncE mode	Non-sync/Monitor
Capture	Off
Ql Type	G.781 option I

IEEE1588v2	Port 1:2
Enable IEEE 1588v2	Off
Slave mode	On
IEEE 1588v2 domain	4
Ext. log	On
Layer 3	IPv4
Profile	G.8265.1
Capture	Off
Step mode	One-step
Destination IPv4 address	0.0.0.0
Destination IPv6 address	0000:0000:0000:0000:0000:0000:0000:0000
Destination MAC address	00-00-00-00-00-00
Source IPv4 address	0.0.0.0
Source IPv6 address	0000:0000:0000:0000:0000:0000:0000:0000
Address Configuration Mode	Manual
Address Configuration Status	Disabled
Interface ID	02-00-91-FF-FE-07-9C-93

Use src MAC	On
Link local address	FE80::200:91FF:FE07:9C93
Flags(RA)	N/A
Source MAC	N/A
Prefix	N/A
Flags(Prefix)	N/A
Life time	N/A
Default MAC address	On
Select Multicast MAC address	Automatic select
Multicast scope	Interface local
Multicast scope user defined	0
DSCP(PTP events message)	00
DSCP(PTP other message)	00
Unicast duration	300 sec
Layer 2	ETH
Ethertype	0800
ARP	0
Enable	Off
Type	Hop-by-Hop
Length	14
Custom pattern	00 00 00 00 00 00 00 00 00 00 00 00 00 00
Use source MAC as identity	On
Announce interval	2 s (0x01)
Minimum delay request interval	1 s (0x00)
Sync interval	1 s (0x00)
UTC offset	37 sec
GPS antenna cable	0 ns
VLAN	
VLAN level count	1
VLAN 1	ID:0 DEI:0 Priority:0 Ethertype:0x8100
MPLS	
MPLS level count	1
MPLS 1	Label:0 EXP:0 Stack:0 TTL:32

OAM	Port 1:2
Default MAC address	On
Ethernet OAM protocol	802.3ah
802.3ah	
802.3AH State	Off
Link mode	Passive
Vendor OUI	000091
Vendor specific info	0000000
Unidirectional	Off
Variable retrieval	Off
Errored symbol period event	Window:1000ms Threshold:1
Errored frame event	Window:1000ms Threshold:1
Errored frame period event	Window:1000ms Threshold:1
Errored frame second summary event	Window:60000ms Threshold:1

Status - Ethernet(Port 1:2)

Timing	
Bit rate	999999352 bps
Bit rate difference	-0.6 ppm
Bit rate difference	-648 bps
Accumulated difference	-245856704 bits

Link	
LOS	OK
Link	OK
Speed	1 Gbps
Duplex	FDX
MDI/MDIX	N/A

Speed/Duplex	FDX	HDX
10	Disabled	Disabled
100	Disabled	Disabled
1000	Disabled	Disabled

Alarms/Errors - Ethernet(Port 1:2)

LAN Status	
Frames Present	Detected
MPLS Frame	Undetected
MPLS-TP Frame	Undetected
VLAN Frame	Undetected
BER Alarms	OK
Bit Errors	OK