



Packet Blazer 10GigE

Job Information

Job ID	1
Contractor	
Customer	pierce-puyallup-ctc
Report Date	2019-04-03 11:16:14
Operator Name	daniel dh
Circuit ID	Wave:11/GNNI/023513//WBB

File Name: C:\inetpub\wwwroot\k20_performance_reports\pierce-puyallup-ctc\2019-04-03_pierce-puyallup-ctc.pdf

Comment:

Table of Contents

1. Setup	3
2. Summary	4
3. Optical [P1]/Port	7
4. EtherSAM Configuration	10
5. EtherSAM Results	16
6. Optical [P1]/Ethernet Framed Layer 2/Traffic Analyzer	20
7. Clock Synchronization	22
8. Software Options	24
9. Ping [P1]/Ping	25

1. Setup

1.1. IPversion Status

Port	IP Version
Port1	IPv4

1.2. Transceiver Mode

Item	Value
Transceiver Mode	10GigE LAN

2. Summary

2.1. Alarm

2.1.1. Alarms

2.1.1.1. Global

Alarm	H
Global	No Fault
Log Full	No Fault

2.1.1.2. Physical

Alarm	H
LOS	No Fault
Frequency	No Fault
LOC	No Fault

Signal Analysis	Value
Pwr (dBm)	-1.7

Frequency Analysis	Value
Freq (bps)	10312526464.0
Offset (ppm)	3

2.1.1.3. WIS

No information is available

2.1.1.4. Ethernet

Alarm	H
Error	No Fault
Link	No Fault
Fault	No Fault

2.1.1.5. Higher Layer Protocol

Alarm	H
Error	No Fault

2.1.1.6. Pattern

No information is available

2.1.1.7. Other

Alarm	H
SDT	No Fault

2.1.2. Logger**2.1.2.1. Logger Events**

ID	Date/Time	Data Path	Event	Duration	Count	Rate
1	2019-04-03 11:03:38	Test 1	Test Started			
2	2019-04-03 11:14:26	Test 1	Test Stopped			

2.2. Test**2.2.1. Test Status**

Item	Value
Start Time:	2019-04-03 11:03:38
Port 1 Link	Up

2.2.2. Test Configuration

Item	Value
Application Type	EtherSAM (Y.1564)
Test Name	BV10.EtS
Test Description	

2.2.3. Test Preferences

No information is available

2.2.4. Clock Configuration

Item	Value
Clock Mode	Internal

2.2.5. Alarm Analysis

Alarm	H	Seconds
LOC	No Fault	0

2.2.6. Timer Configuration

Item	Value
Start Time Status	Disabled
Start Time	2015-07-20 12:19:45
Stop Time Status	Disabled
Stop Time	2015-07-20 12:19:45
Duration Status	Disabled
Duration	15 minutes
On/Off State	Disabled

3. Optical [P1]/Port

3.1. TX

3.1.1. Signal Analysis

Item	Value
Output Presence	Active

3.1.2. Alarm Generation

Item	Value
Type	LOS
On/Off	Disabled

3.1.3. Frequency

Item	Value
Frequency Offset (ppm)	0
On/Off	Disabled
Actual Frequency (bps)	10312499904
Nominal Frequency (bps)	10312500000

3.2. RX

3.2.1. Signal Analysis

Item	Value
Range (dBm)	-14.0 to 2.0
Power (dBm)	-1.7

3.2.2. Alarm Analysis

Alarm	H	Seconds
LOS	No Fault	0
Frequency	No Fault	0

3.2.3. Frequency Analysis

Item	Value
Frequency (bps)	10312526464
Frequency Offset (bps)	26464
Max. Negative Offset (bps)	0
Max. Positive Offset (bps)	26656

3.3. Interface

3.3.1. Configuration

Item	Value
Flow Control	None

3.3.2. Status

Item	Value
Link	Up

3.4. Network

3.4.1. MAC Configuration

Item	Value
MAC Address	00:03:01:08:9E:3D

3.4.1.1. VLAN

Item	Value
Enable VLAN	Disabled

3.4.2. IP Configuration

Item	Value
IP Address	10.10.114.173
Subnet Mask	255.255.255.0
Enable DHCP	Disabled
Enable Default Gateway	Disabled
Default Gateway	N/A

3.4.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A

4. EtherSAM Configuration

4.1. Overview

4.1.1. EtherSAM Configuration Overview

Service	Profile	Enabled	Service Name	Frame Size	CIR (Mbps)	Max Jitter (ms)	Max Latency (ms)	Frame Loss (%)	CBS (Bytes)
1	Data	Enabled	2Gb CIR	Random	950.0	2	28	0.01	N/A
2	Data	Disabled	Service 2	74	5000.0	2	15	0.1	N/A
3	Data	Disabled	Service 3	74	5000.0	2	15	0.1	N/A
4	Data	Disabled	Service 4	74	5000.0	2	15	0.1	N/A
5	Data	Disabled	Service 5	74	5000.0	2	15	0.1	N/A
6	Data	Disabled	Service 6	74	5000.0	2	15	0.1	N/A
7	Data	Disabled	Service 7	74	5000.0	2	15	0.1	N/A
8	Data	Disabled	Service 8	74	5000.0	2	15	0.1	N/A
9	Data	Disabled	Service 9	74	5000.0	2	15	0.1	N/A
10	Data	Disabled	Service 10	74	5000.0	2	15	0.1	N/A

4.1.2. Global Verdict

4.1.3. Enable Sub-Tests

Item	Value
Service Configuration Test	Enabled
Ramp Test	Enabled
Burst Test	Disabled
Service Performance Test	Enabled

4.1.4. Sub-Tests Duration

Item	Duration
Service Configuration Test	00d:00:00:20
Service Performance Test	00d:00:10:00

4.1.5. Total TX Rate (%)

Item	Value
Available	90.5
Committed	9.5

4.2. Services**4.2.1. 2Gb CIR****4.2.1.1. SLA Parameters**

Item	Value
CIR (Mbit/s)	950.0
CIR+EIR (Mbit/s)	N/A
Traffic Policing (Mbit/s)	N/A
CBS (Bytes)	N/A
EBS (Bytes)	N/A
Burst Max Rate (Mbit/s)	N/A
Max Jitter (ms)	2
Max Latency (ms)	28
Frame Loss (%)	0.01

4.2.1.2. Frame Configuration**4.2.1.2.1. Service Profile**

Item	Value
Profile Type	Data

4.2.1.2.2. Frame Configuration

Item	Value	Size
Data Link	Ethernet II	Random
Network	IPv4	Random
Transport	UDP	Random

4.2.1.3. MAC

4.2.1.3.1. Source

Item	Value
MAC Address	00:03:01:08:9E:3D

4.2.1.3.2. Destination

Item	Value
MAC Address	00:03:01:FE:BD:41
Resolve MAC Address	Enabled
Status	Resolved

4.2.1.3.2.1. VLAN

Item	Value
Enable VLAN	Disabled

4.2.1.3.3. Frame Format

Item	Value
Format	Ethernet II
OUI	N/A
User Defined OUI	N/A
EtherType	0800

4.2.1.4. MPLS Configuration

Item	Value
Label #2	N/A
COS / EXP #2	N/A
TTL #2	N/A

4.2.1.5. IP**4.2.1.5.1. Source**

Item	Value
IP Address	10.112.0.01
Subnet Mask	255.255.255.0

4.2.1.5.1.1. IP Multiplier

Item	Value
Enable	Disabled
Range	N/A

4.2.1.5.2. Destination

Item	Value
IP Address	10.112.0.100
TTL	128
IP TOS/DS	00

4.2.1.5.2.1. Advanced TOS/DS

Item	Value
Enable Differentiated Services	Disabled

4.2.1.5.2.1.1. DS

No information is available

4.2.1.5.2.1.2. TOS

Item	Value
Precedence	000 (Routine)
Delay	Normal
Throughput	Normal
Reliability	Normal
Monetary Cost	Normal
Reserved Bit	0

4.2.1.5.2.2. Default Gateway

Item	Value
Enable	Disabled
Default Gateway	N/A

4.2.1.6. UDP

4.2.1.6.1. Source

Item	Value
Port	49184

4.2.1.6.2. Destination

Item	Value
Port	7

4.2.1.7. Payload

No information is available

4.3. Ramp

Step List	Value (% of CIR)
Step Time (s)	5
Ramp Duration (s)	25

Step1 (%)	50.0
Step2 (%)	75.0
Step3 (%)	90.0
Step4	CIR
Step5	Traffic Policing

4.4. Burst

Item	Value
Number of Burst Sequence	2
Refill Delay Ratio (%)	50
Burst/IR Frame Ratio (%)	90

4.4.1. Burst Test

Service No.	CBS Test Time (s)	EBS Test Time (s)	Total Burst Test Time (s)
1	N/A	N/A	--
2	N/A	N/A	--
3	N/A	N/A	--
4	N/A	N/A	--
5	N/A	N/A	--
6	N/A	N/A	--
7	N/A	N/A	--
8	N/A	N/A	--
9	N/A	N/A	--
10	N/A	N/A	--
Total	0	0	0

5. EtherSAM Results

5.1. Overview

5.1.1. Global Progress

Item	Value
Test Status	Completed
Verdict	PASS

5.1.2. Configuration Test Overview

5.1.2.1. 2Gb CIR

Item	Value	Verdict
Frame Loss (%)	0.000	PASS
Max Jitter (ms)	0.041	PASS
Max Latency (ms)	9.377	PASS
Max RX Rate (Mbit/s)	950	PASS

5.1.3. Performance Test Overview

5.1.3.1. 2Gb CIR

Item	Value	Verdict
Average RX Rate (Mbps)	949.999	PASS
Frame Loss (%)	0.000	PASS
Max Jitter (ms)	0.041	PASS
Max Latency (ms)	9.878	PASS
Verdict	PASS	PASS

5.2. Service Configuration Test

5.2.1. 2Gb CIR

5.2.1.1. Service Verdict

Item	Verdict
Service Verdict	PASS

5.2.1.2. Max RX Rate

Item	Value	Verdict
Max RX Rate (Mbit/s)	950	PASS

5.2.1.3. Step 1

Item	Value	Verdict
Percentage of CIR	50.0	Not Applicable
Frame Loss (%)	0.000	PASS
Max Jitter (ms)	0.041	PASS
Max Latency (ms)	9.377	PASS
Verdict	PASS	PASS
Average RX Rate (Mbps)	474.999	N/A

5.2.1.4. Step 2

Item	Value	Verdict
Percentage of CIR	75.0	Not Applicable
Frame Loss (%)	0.000	PASS
Max Jitter (ms)	0.039	PASS
Max Latency (ms)	9.195	PASS
Verdict	PASS	PASS
Average RX Rate (Mbps)	712.499	N/A

5.2.1.5. Step 3

Item	Value	Verdict
Percentage of CIR	90.0	Not Applicable
Frame Loss (%)	0.000	PASS
Max Jitter (ms)	0.036	PASS
Max Latency (ms)	9.031	PASS
Verdict	PASS	PASS
Average RX Rate (Mbps)	855	N/A

5.2.1.6. Step CIR

Item	Value	Verdict
Frame Loss (%)	0.000	PASS
Max Jitter (ms)	0.036	PASS
Max Latency (ms)	9.003	PASS
Verdict	PASS	PASS
Average RX Rate (Mbps)	950	N/A

5.3. Service Performance Test**5.3.1. Port 1****5.3.1.1. 2Gb CIR****5.3.1.1.1. Sequence Tracking**

Error	H	Seconds	Count	Rate	Percentage
Out-Of-Sequence	No Fault	0	0	0.00E00	0.000
Frame Loss	No Fault	0	0	0.00E00	0.000

5.3.1.1.2. RX Rate

Item	Value
Minimum (%)	9.499
Maximum (%)	9.5
Current (%)	9.499
Average (%)	9.499
RX Frame Count	87888522

5.3.1.1.3. Round Trip Latency

Item	Value
Minimum (ms)	8.832
Maximum (ms)	9.878
Current (ms)	8.859
Average (ms)	8.855

5.3.1.1.4. Jitter

Item	Value
Minimum (ms)	< 0.015
Maximum (ms)	0.041
Current (ms)	< 0.015
Average (ms)	< 0.015
Number of Samples	87456155
Estimate (ms)	< 0.015

6. Optical [P1]/Ethernet Framed Layer 2/Traffic Analyzer

6.1. Eth. RX

6.1.1. Configuration

Item	Value
Oversize Monitoring	Disabled

6.1.2. Alarm Analysis

Alarm	H	Seconds
Link Down	No Fault	0
Local Fault	No Fault	0
Remote Fault	No Fault	0

6.1.3. Error Analysis

Error	H	Seconds	Count	Rate
Block	No Fault	0	0	0.00E00
FCS	No Fault	0	0	0.00E00
Jabber/Giant	No Fault	0	0	0.00E00
Oversize	N/A	N/A	N/A	N/A
Runt	No Fault	0	0	0.00E00
Undersize	No Fault	0	0	0.00E00
Total Error Count			0	

6.2. Eth. Stats

6.2.1. Total Frame Counts

	RX Count	TX Count
Total Count	90194904	90194892

6.2.2. Valid Frame Counts

Frames	TX Count	RX Count
Multicast	0	23
Broadcast	11	0
Unicast	90194881	90194881
N-Unicast	11	23
Total	90194892	90194904

6.2.3. Frame Size

Frame Size	Count	Total (%)
< 64	0	0.000
64	63554	0.070
65 - 127	3911239	4.336
128 - 255	7942434	8.806
256 - 511	15857740	17.582
512 - 1023	31725773	35.175
1024 - 1518	30694164	34.031
> 1518	0	0.000

6.2.4. Throughput

Item	Value
Bandwidth (Mbps)	0.0
Utilization (%)	0.0
Frame Rate (fps)	0

6.3. Higher Layers**6.3.1. Higher Layer Protocol**

Error	H	Seconds	Count	Rate
IP Header Checksum	No Fault	0	0	0.00E00
UDP Checksum	No Fault	0	0	0.00E00
TCP Checksum	No Fault	0	0	--

7. Clock Synchronization

7.1. RX

7.1.1. Configuration

Item	Value
Interface Type	None
Termination Mode	N/A
Line Coding	N/A
Framing	N/A

7.1.2. Alarm Analysis

Alarm	State
LOS	N/A
AIS	N/A
LOF	N/A
Frequency	N/A

7.1.3. Frequency Analysis

Item	Value
Frequency (bps)	--
Frequency Offset (ppm)	--

7.2. Backplane

7.2.1. Configuration

Item	Value
Clock Mode	Internal
Enable	Disabled

7.2.2. Alarm Analysis

Alarm	State
LOC	No Fault

7.3. Clock Out

7.3.1. Configuration

Item	Value
Clock Out Divider	16

8. Software Options

8.1. Available Options

Category	Name	Description	Status
Feature	SK-ADV-FILTERS	Advanced Traffic Filtering	Enabled
Feature	SK-DATA-CAPTURE	Ethernet Frame Capture for Advanced Troubleshooting	Disabled
Feature	SK-ETHERSAM	Ethernet Service Activation Methodology Application Type	Enabled
Feature	SK-IPV6	Internet Protocol Version 6 (IPv6)	Disabled
Feature	SK-MPLS	Multi Protocol Label Switching	Disabled
Feature	SK-PBB-TE	Provider Backbone Bridge with Traffic Engineering	Disabled
Feature	SK-TRAFFIC-SCAN	Traffic Scan Troubleshooting Feature	Disabled
Network	SK-LAN	Local Area Network	Enabled
Network	SK-WAN	Wide Area Network	Enabled

9. Ping [P1]/Ping

9.1. Configuration

9.1.1. Ping

9.1.1.1. Setup

Item	Value
IP Address	10.112.0.101
Run	Disabled

9.1.1.1.1. Configuration

Item	Value
Timeout (ms)	400
Delay (ms)	100
Data Size (Bytes)	32
Time To Live (TTL)	128
Attempts	4
Continuous	Enabled
Type Of Service (TOS)	00

9.1.1.2. Results

#	Status	Replied From	Bytes	Time (ms)	TTL
1	Successful	10.112.0.100	32	11	127
2	Successful	10.112.0.100	32	11	127
3	Successful	10.112.0.100	32	12	127
4	Successful	10.112.0.100	32	11	127
5	Successful	10.112.0.100	32	11	127
6	Successful	10.112.0.100	32	11	127
7	Successful	10.112.0.100	32	11	127
8	Successful	10.112.0.100	32	12	127
9	Successful	10.112.0.100	32	13	127
10	Successful	10.112.0.100	32	11	127
11	Successful	10.112.0.100	32	11	127
12	Successful	10.112.0.100	32	11	127
13	Successful	10.112.0.100	32	11	127
14	Successful	10.112.0.100	32	11	127
15	Successful	10.112.0.100	32	11	127
16	Successful	10.112.0.100	32	11	127
17	Successful	10.112.0.100	32	30	127
18	Successful	10.112.0.100	32	12	127
19	Successful	10.112.0.100	32	11	127
20	Successful	10.112.0.100	32	11	127
21	Successful	10.112.0.100	32	12	127
22	Successful	10.112.0.100	32	11	127
23	Successful	10.112.0.100	32	11	127
24	Successful	10.112.0.100	32	12	127
25	Successful	10.112.0.100	32	32	127
26	Successful	10.112.0.100	32	12	127
27	Successful	10.112.0.100	32	11	127
28	Successful	10.112.0.100	32	11	127
29	Successful	10.112.0.100	32	11	127
30	Successful	10.112.0.100	32	11	127
31	Successful	10.112.0.100	32	11	127
32	Successful	10.112.0.100	32	11	127
33	Successful	10.112.0.100	32	36	127
34	Successful	10.112.0.100	32	11	127
35	Successful	10.112.0.100	32	11	127
36	Successful	10.112.0.100	32	11	127

37	Successful	10.112.0.100	32	11	127
38	Successful	10.112.0.100	32	11	127
39	Successful	10.112.0.100	32	12	127
40	Successful	10.112.0.100	32	12	127
41	Successful	10.112.0.100	32	31	127
42	Successful	10.112.0.100	32	11	127
43	Successful	10.112.0.100	32	11	127
44	Successful	10.112.0.100	32	12	127
45	Successful	10.112.0.100	32	11	127
46	Successful	10.112.0.100	32	11	127
47	Successful	10.112.0.100	32	12	127
48	Successful	10.112.0.100	32	11	127
49	Successful	10.112.0.100	32	40	127
50	Successful	10.112.0.100	32	11	127
51	Successful	10.112.0.100	32	11	127
52	User Aborted	0.0.0.0	0	0	0

9.1.1.2.1. Statistics

Item	Value
TX (packets)	52
RX (packets)	51
Lost (%)	1.92307692307692
Minimum Round Trip Time (ms)	11
Maximum Round Trip Time (ms)	40
Average Round Trip Time (ms)	13

9.1.2. TraceRoute

9.1.2.1. Setup

Item	Value
IP Address	10.112.0.101
Run	Disabled

9.1.2.1.1. Configuration

Item	Value
Timeout (ms)	4000
Max. Hop Count	128

9.1.2.2. Results

No information is available

9.1.2.2.1. Statistics

No information is available