

PXN100 - On 1G Ports RFC2544

Test Report : PXN100 RFC2544

Start Date : 04/05/19

Start Time : 11:18:13

End Date : 04/05/19

End Time : 11:44:55

User Comments :

Port - 1 Interface

Hardware MAC Address : 00-21-C2-00-25-26

Speed : -

Link Status : Down

Duplex Mode : -

Auto Negotiation Status : -

Flow Control : -

Port - 2 Interface

Hardware MAC Address : 00-21-C2-00-25-29

Speed : -

Link Status : Down

Duplex Mode : -

Auto Negotiation Status : -

Flow Control : -

Throughput Results

East ----> West

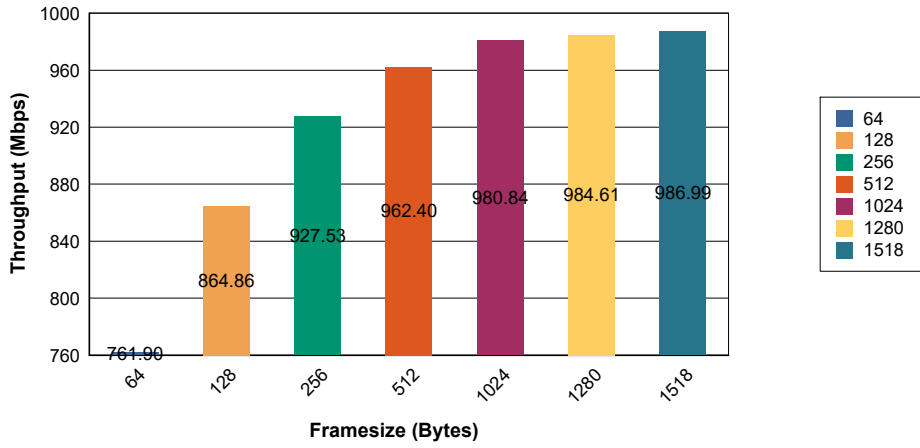
Frame Length	Throughput
64	100.00 % 761.90 Mbps
128	100.00 % 864.86 Mbps
256	100.00 % 927.53 Mbps
512	100.00 % 962.40 Mbps
1024	100.00 % 980.84 Mbps
1280	100.00 % 984.61 Mbps
1518	100.00 % 986.99 Mbps

West ----> East

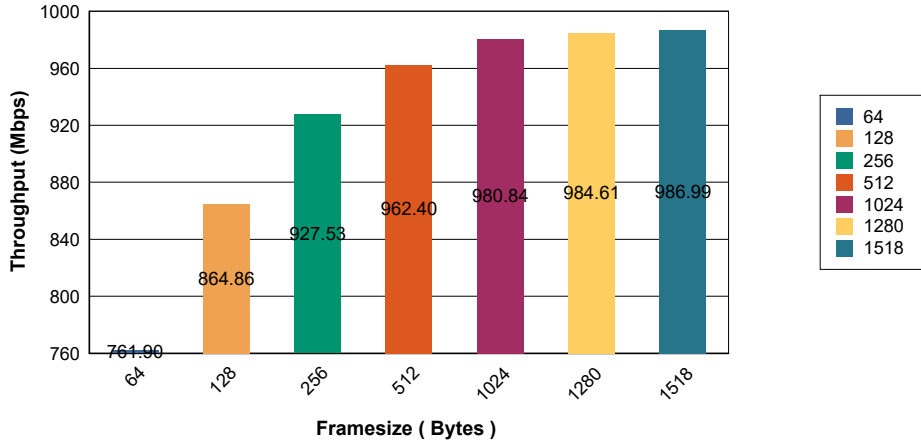
Frame Length	Throughput
64	100.00 % 761.90 Mbps
128	100.00 % 864.86 Mbps
256	100.00 % 927.53 Mbps
512	100.00 % 962.40 Mbps
1024	100.00 % 980.84 Mbps
1280	100.00 % 984.61 Mbps
1518	100.00 % 986.99 Mbps

Throughput Graph

East To West Throughput Result



West To East Throughput Results



Latency Results

East ----> West

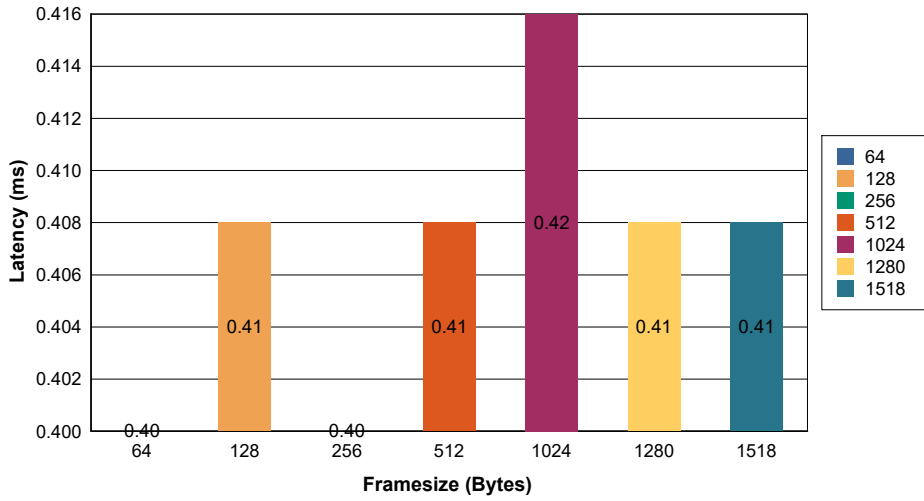
Frame Size	Latency
64	0.40 us
128	0.41 us
256	0.40 us
512	0.41 us
1024	0.42 us
1280	0.41 us
1518	0.41 us

West ----> East

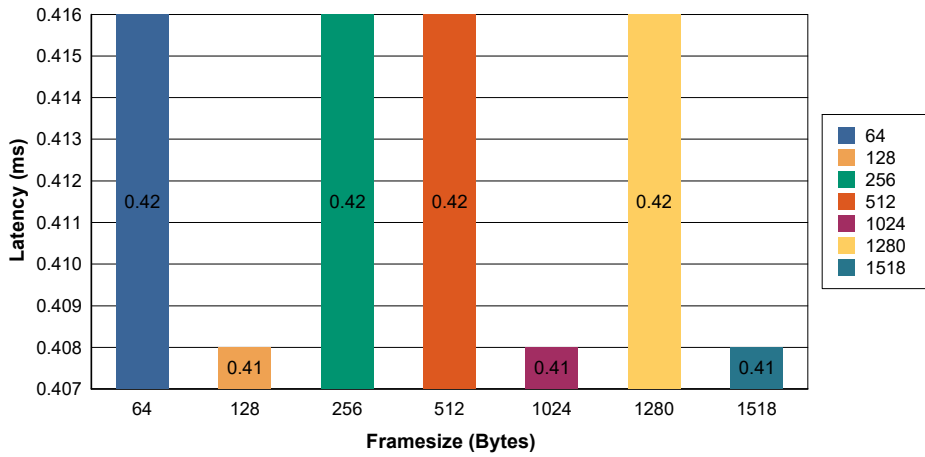
Frame Size	Latency
64	0.42 us
128	0.41 us
256	0.42 us
512	0.42 us
1024	0.41 us
1280	0.42 us
1518	0.41 us

Latency Graph

East To West Latency Results



West To East Latency Results



FrameLoss Results

East Port ----> West Port

Frame Length	Bandwidth	Loss
64	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %
	30.00 %	0.00 %
	20.00 %	0.00 %
	10.00 %	0.00 %
128	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %
	30.00 %	0.00 %
	20.00 %	0.00 %
	10.00 %	0.00 %
256	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %
	30.00 %	0.00 %
	20.00 %	0.00 %

West Port ----> East Port

Frame Length	Bandwidth	Loss
64	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %
	30.00 %	0.00 %
	20.00 %	0.00 %
	10.00 %	0.00 %
128	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %
	30.00 %	0.00 %
	20.00 %	0.00 %
	10.00 %	0.00 %
256	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %
	30.00 %	0.00 %
	20.00 %	0.00 %

	10.00 %	0.00 %		10.00 %	0.00 %
512	100.00 %	0.00 %	512	100.00 %	0.00 %
	90.00 %	0.00 %		90.00 %	0.00 %
	80.00 %	0.00 %		80.00 %	0.00 %
	70.00 %	0.00 %		70.00 %	0.00 %
	60.00 %	0.00 %		60.00 %	0.00 %
	50.00 %	0.00 %		50.00 %	0.00 %
	40.00 %	0.00 %		40.00 %	0.00 %
	30.00 %	0.00 %		30.00 %	0.00 %
	20.00 %	0.00 %		20.00 %	0.00 %
	10.00 %	0.00 %		10.00 %	0.00 %
1024	100.00 %	0.00 %	1024	100.00 %	0.00 %
	90.00 %	0.00 %		90.00 %	0.00 %
	80.00 %	0.00 %		80.00 %	0.00 %
	70.00 %	0.00 %		70.00 %	0.00 %
	60.00 %	0.00 %		60.00 %	0.00 %
	50.00 %	0.00 %		50.00 %	0.00 %
	40.00 %	0.00 %		40.00 %	0.00 %
	30.00 %	0.00 %		30.00 %	0.00 %
	20.00 %	0.00 %		20.00 %	0.00 %
	10.00 %	0.00 %		10.00 %	0.00 %
1280	100.00 %	0.00 %	1280	100.00 %	0.00 %
	90.00 %	0.00 %		90.00 %	0.00 %
	80.00 %	0.00 %		80.00 %	0.00 %
	70.00 %	0.00 %		70.00 %	0.00 %
	60.00 %	0.00 %		60.00 %	0.00 %
	50.00 %	0.00 %		50.00 %	0.00 %
	40.00 %	0.00 %		40.00 %	0.00 %
	30.00 %	0.00 %		30.00 %	0.00 %
	20.00 %	0.00 %		20.00 %	0.00 %
	10.00 %	0.00 %		10.00 %	0.00 %
1518	100.00 %	0.00 %	1518	100.00 %	0.00 %
	90.00 %	0.00 %		90.00 %	0.00 %

80.00 % 0.00 %

70.00 % 0.00 %

60.00 % 0.00 %

50.00 % 0.00 %

40.00 % 0.00 %

30.00 % 0.00 %

20.00 % 0.00 %

10.00 % 0.00 %

80.00 % 0.00 %

70.00 % 0.00 %

60.00 % 0.00 %

50.00 % 0.00 %

40.00 % 0.00 %

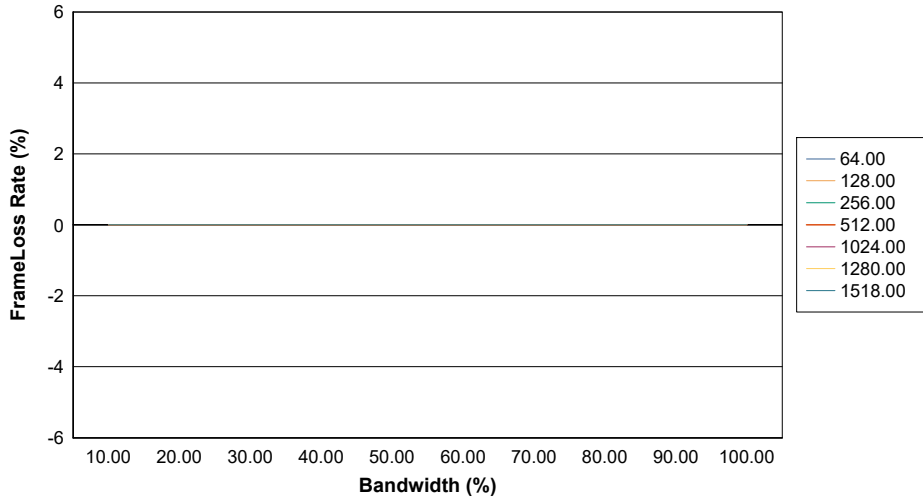
30.00 % 0.00 %

20.00 % 0.00 %

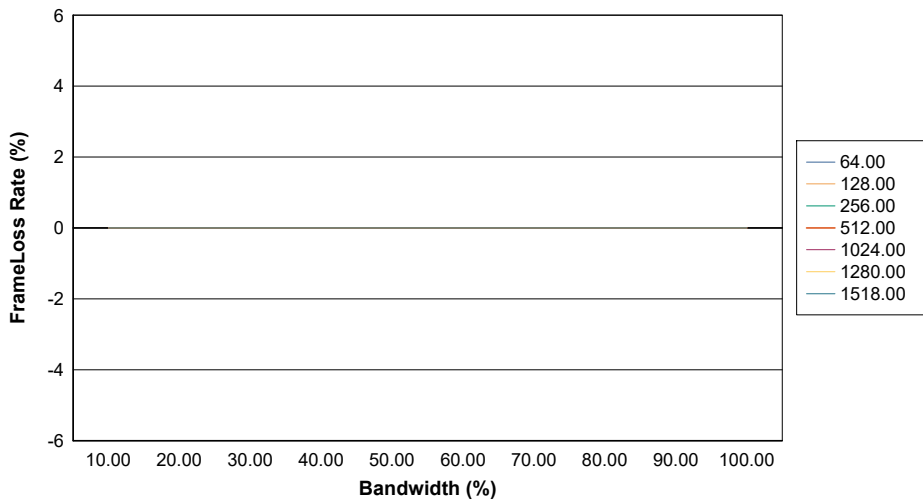
10.00 % 0.00 %

FrameLoss Graph

East To West Frameless Graph



West To East Frameless graph



BackToBack Results

East Port ----> West Port

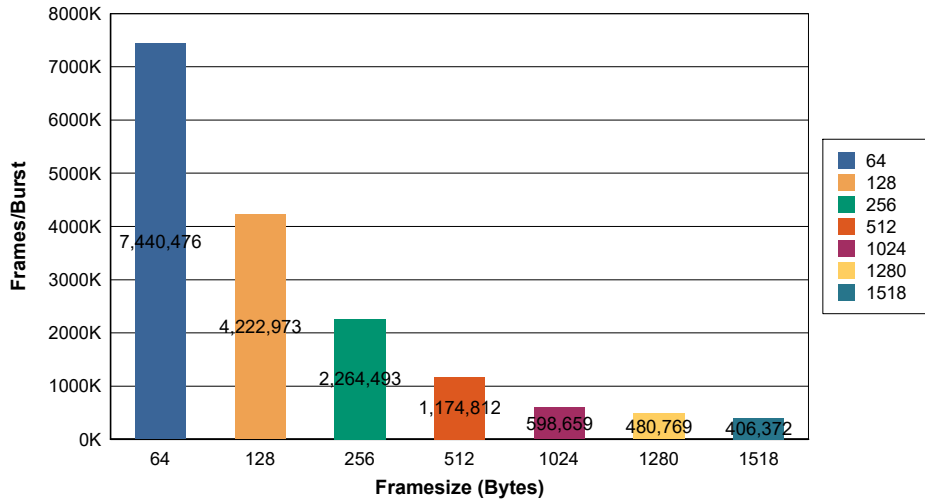
Frame Length	Frame Per Burst
64	7 440 476 Frames/Burst
128	4 222 973 Frames/Burst
256	2 264 493 Frames/Burst
512	1 174 812 Frames/Burst
1024	598 659 Frames/Burst
1280	480 769 Frames/Burst
1518	406 372 Frames/Burst

West Port ----> East Port

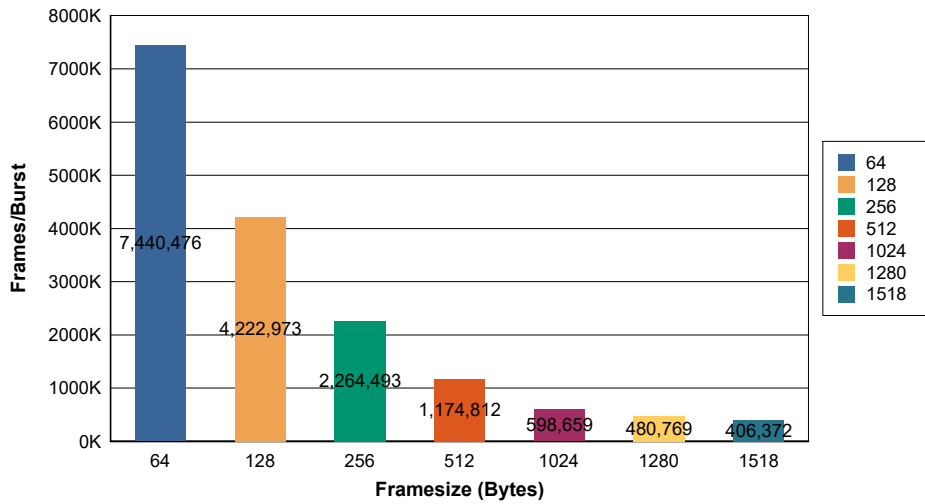
Frame Length	Frame Per Burst
64	7 440 476 Frames/Burst
128	4 222 973 Frames/Burst
256	2 264 493 Frames/Burst
512	1 174 812 Frames/Burst
1024	598 659 Frames/Burst
1280	480 769 Frames/Burst
1518	406 372 Frames/Burst

BackToBack Graph

East To West BackToBack Graph



West To East BackToBack Graph



Global Configuration

Minimum Frame Length : 64

Maximum Frame Length : 16000

Framesize

Quantity : 7

64	128	256	512	1024
1280	1518	-	-	-
-	-	-	-	-
-	-	-	-	-

Port Selection

East Port	Direction	West Port
1	Bidirectional	2

Test Procedure

Throughput : Enabled
Latency : Enabled
BackToBack : Enabled
FrameLoss : Enabled

Test Configuration

Throughput East Port <-> West Port

Trial Duration (sec) : 5
Number Of Trials : 1
Min Bandwidth (%) : 10.00 | 10.00
Max Bandwidth (%) : 100.00 | 100.00

Latency East Port <-> West Port

Trial Duration (sec) : 5
Number Of Trials : 1
Bandwidth (%) : 100.000 | 100.000

FrameLoss East Port <-> West Port

Trial Duration (sec) : 3
Number Of Trials : 1
Min Bandwidth (%) : 10.00 | 10.00
Max Bandwidth (%) : 100.00 | 100.00

BackToBack East Port <-> West Port

Trial Duration (sec) : 5
Number Of Trials : 1
Burst Size (msec) : 400 | 400
Number Of Bursts : 1 | 1

Port - 1 TxRx Configuration

MAC

Layer : UDP

Source MAC Address : 00-11-11-11-11-11

Destination MAC Address : 00-22-22-22-22-22

Length/Type : 08-00

VLAN Enable : Disabled

VLAN Level : -

VLAN Type 1 -

VLAN ID 1 : - VLAN Priority 1 : -

VLAN Type 2 -

VLAN ID 2 : - VLAN Priority 2 : -

VLAN Type 3 : -

VLAN ID 3 : - VLAN Priority 3 : -

MPLS Enable : Disabled

MPLS Level : -

MPLS Label 1 : -

MPLS CoS 1 : -

MPLS TTL 1 : -

MPLS Label 2 : -

MPLS CoS 2 : -

MPLS TTL 2 : -

MPLS Label 3 : -

MPLS CoS 3 : -

MPLS TTL 3 : -

IP

IP Type : IPv4

Source IPv4 Address : 192.168.1.101

Subnet Mask : 255.255.255.0

Enable Default Gateway : Disabled

Default Gateway : 192.168.1.1

Dest IPv4 Address : 192.168.1.102

Enable IP Checksum : Enabled

TOS/DS : 0 IP Checksum : -

TTL : 128 Enable IP Id Incr : Enabled

Protocol : 17 IP ID : -

Traffic Class : - Next Header : -

Flow Label : - Hop Limit : -

Source IPv6 Address Type : -

Source IPv6 Address : -

Dest IPv6 Address Type : -

Dest IPv6 Address : -

UDP

Source UDP Port : 10000

Destination UDP Port : 20000

UDP Checksum Enable : Enabled

UDP Checksum : -

Payload

Payload : 1234

Port - 2 TxRx Configuration

MAC

Layer : UDP

Source MAC Address : 00-22-22-22-22-22

Destination MAC Address : 00-11-11-11-11-11

Length/Type : 08-00

VLAN Enable : Disabled

VLAN Level : -

VLAN Type 1 -

VLAN ID 1 : - VLAN Priority 1 : -

VLAN Type 2 -

VLAN ID 2 : - VLAN Priority 2 : -

VLAN Type 3 : -

VLAN ID 3 : - VLAN Priority 3 : -

MPLS Enable : Disabled

MPLS Level : -

MPLS Label 1 : -

MPLS CoS 1 : -

MPLS TTL 1 : -

MPLS Label 2 : -

MPLS CoS 2 : -

MPLS TTL 2 : -

MPLS Label 3 : -

MPLS CoS 3 : -

MPLS TTL 3 : -

IP

IP Type : IPv4

Source IPv4 Address : 192.168.1.102

Subnet Mask : 255.255.255.0

Enable Default Gateway : Disabled

Default Gateway : 192.168.1.1

Dest IPv4 Address : 192.168.1.101

Enable IP Checksum : Enabled

TOS/DS : 0 IP Checksum : -

TTL : 128 Enable IP Id Incr : Enabled

Protocol: 17 IP ID : -

Traffic Class : - Next Header : -

Flow Label : - Hop Limit : -

Source IPv6 Address Type : -

Source IPv6 Address : -

Dest IPv6 Address Type : -

Dest IPv6 Address : -

UDP

Source UDP Port : 20000

Destination UDP Port : 10000

UDP Checksum Enable : Enabled

UDP Checksum : -

Payload

Payload : 1234

