

PXN100 - On 10G Ports RFC2544

Test Report : PXN100 RFC2544

Start Date : 04/05/19

Start Time : 11:43:58

End Date : 04/05/19

End Time : 11:56:50

User Comments :

Port - 1 Interface

Hardware MAC Address : 00-21-C2-00-24-4F

Link Status : Up

Auto Negotiation Status : -

Speed : 10000 Mbps

Duplex Mode : Full Duplex

Flow Control : Enabled

Port - 2 Interface

Hardware MAC Address : 00-21-C2-00-24-50

Link Status : Up

Auto Negotiation Status : -

Speed : 10000 Mbps

Duplex Mode : Full Duplex

Flow Control : Enabled

Throughput Results

East ----> West

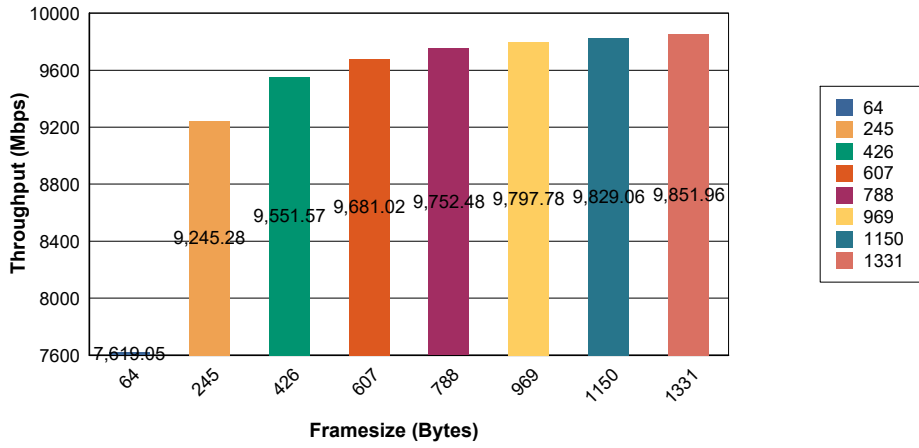
Frame Length	Throughput
64	100.00 % 7619.05 Mbps
245	100.00 % 9245.28 Mbps
426	100.00 % 9551.57 Mbps
607	100.00 % 9681.02 Mbps
788	100.00 % 9752.48 Mbps
969	100.00 % 9797.78 Mbps
1150	100.00 % 9829.06 Mbps
1331	100.00 % 9851.96 Mbps

West ----> East

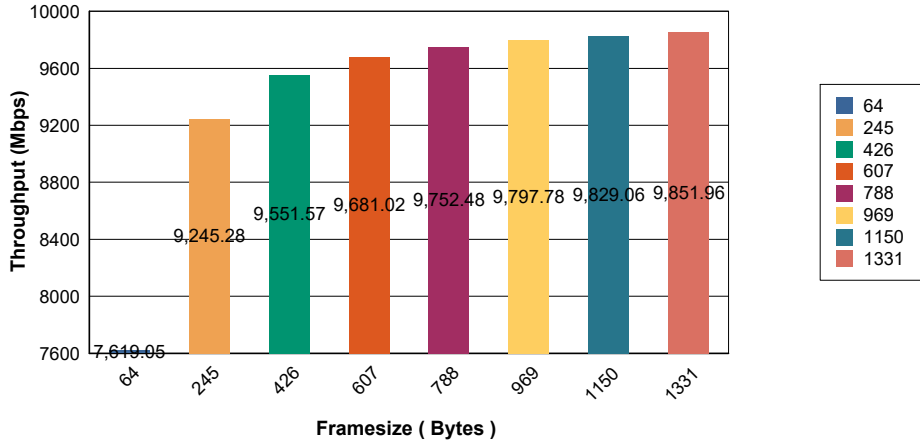
Frame Length	Throughput
64	100.00 % 7619.05 Mbps
245	100.00 % 9245.28 Mbps
426	100.00 % 9551.57 Mbps
607	100.00 % 9681.02 Mbps
788	100.00 % 9752.48 Mbps
969	100.00 % 9797.78 Mbps
1150	100.00 % 9829.06 Mbps
1331	100.00 % 9851.96 Mbps

Throughput Graph

East To West Throughput Result



West To East Throughput Results



Latency Results

East ----> West

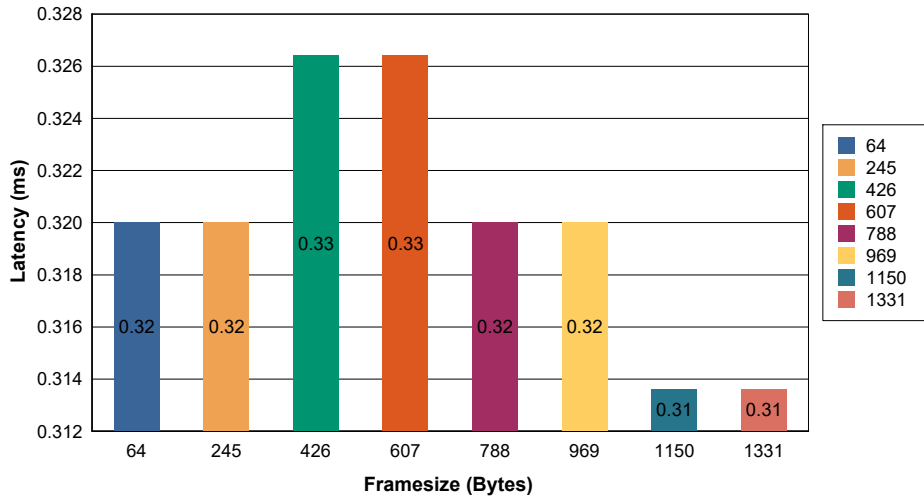
Frame Size	Latency
64	0.32 us
245	0.32 us
426	0.33 us
607	0.33 us
788	0.32 us
969	0.32 us
1150	0.31 us
1331	0.31 us

West ----> East

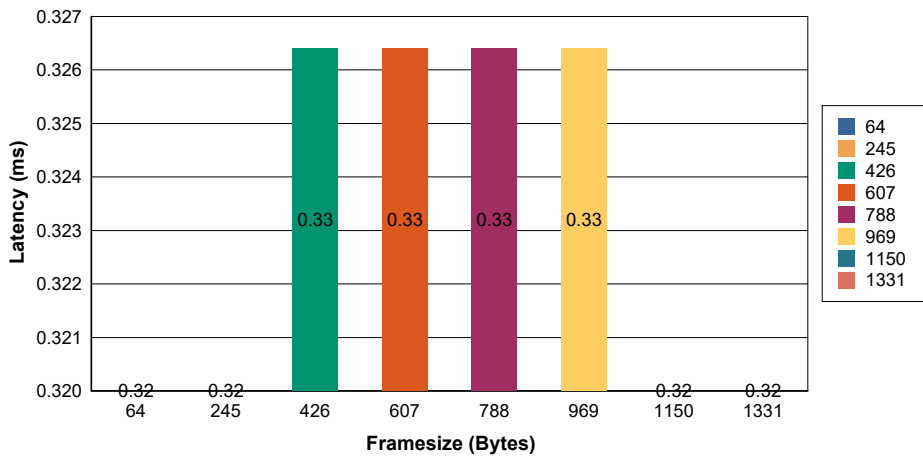
Frame Size	Latency
64	0.32 us
245	0.32 us
426	0.33 us
607	0.33 us
788	0.33 us
969	0.33 us
1150	0.32 us
1331	0.32 us

Latency Graph

East To West Latency Results



West To East Latency Results



FrameLoss Results

East Port ----> West Port

West Port ----> East Port

Frame Length	Bandwidth	Loss
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Frame Length	Bandwidth	Loss
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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 %
	1.00 %	0.00 %

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 %
	1.00 %	0.00 %

245	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 %
	1.00 %	0.00 %

245	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 %
	1.00 %	0.00 %

426	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 %

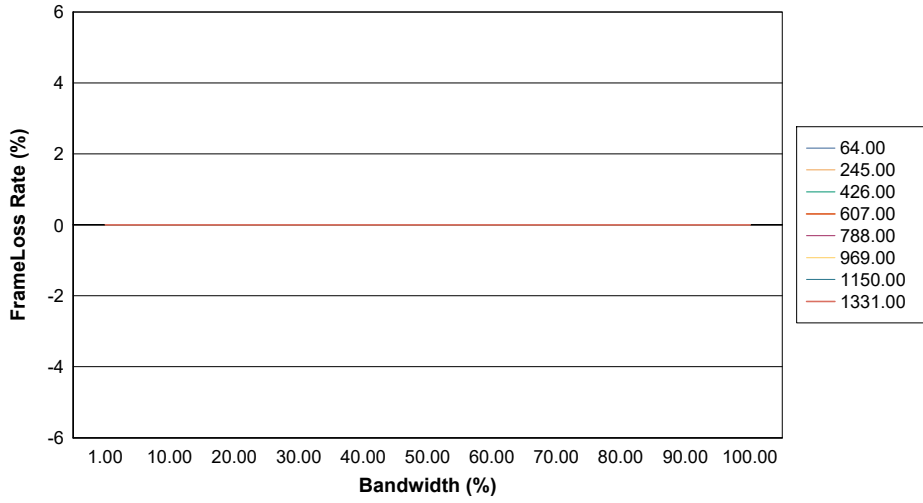
426	100.00 %	0.00 %
	90.00 %	0.00 %
	80.00 %	0.00 %
	70.00 %	0.00 %
	60.00 %	0.00 %
	50.00 %	0.00 %
	40.00 %	0.00 %

	30.00 %	0.00 %		30.00 %	0.00 %
	20.00 %	0.00 %		20.00 %	0.00 %
	10.00 %	0.00 %		10.00 %	0.00 %
	1.00 %	0.00 %		1.00 %	0.00 %
607	100.00 %	0.00 %	607	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 %
	1.00 %	0.00 %		1.00 %	0.00 %
788	100.00 %	0.00 %	788	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 %
	1.00 %	0.00 %		1.00 %	0.00 %
969	100.00 %	0.00 %	969	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 %

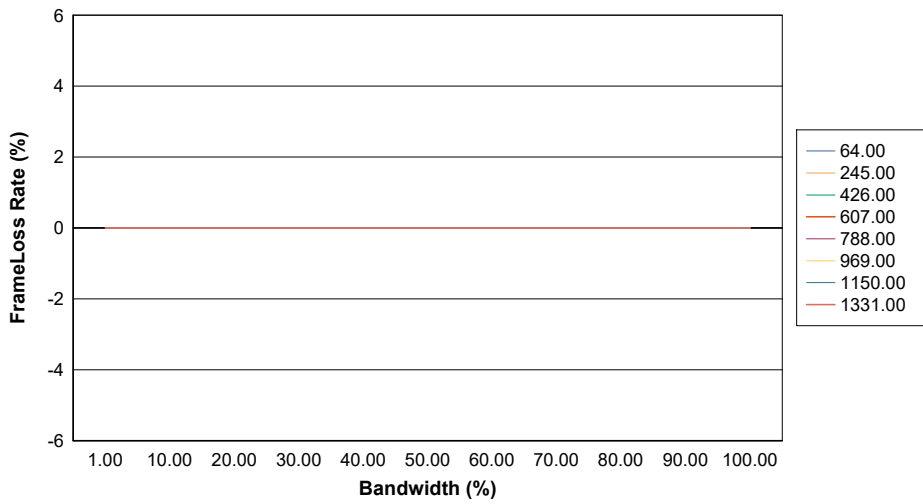
	30.00 %	0.00 %		30.00 %	0.00 %
	20.00 %	0.00 %		20.00 %	0.00 %
	10.00 %	0.00 %		10.00 %	0.00 %
	1.00 %	0.00 %		1.00 %	0.00 %
1150	100.00 %	0.00 %	1150	100.00 %	0.00 %
	90.00 %	0.00 %		90.00 %	0.00 %
	80.00 %	0.00 %		80.00 %	0.00 %
	70.00 %	0.00 %		70.00 %	0.00 %
	60.00 %	0.00 %		60.00 %	0.00 %
	50.00 %	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 %
	1.00 %	0.00 %		1.00 %	0.00 %
1331	100.00 %	0.00 %	1331	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 %
	1.00 %	0.00 %		1.00 %	0.00 %

FrameLoss Graph

East To West Frameless Graph



West To East Frameless graph



BackToBack Results

East Port ----> West Port

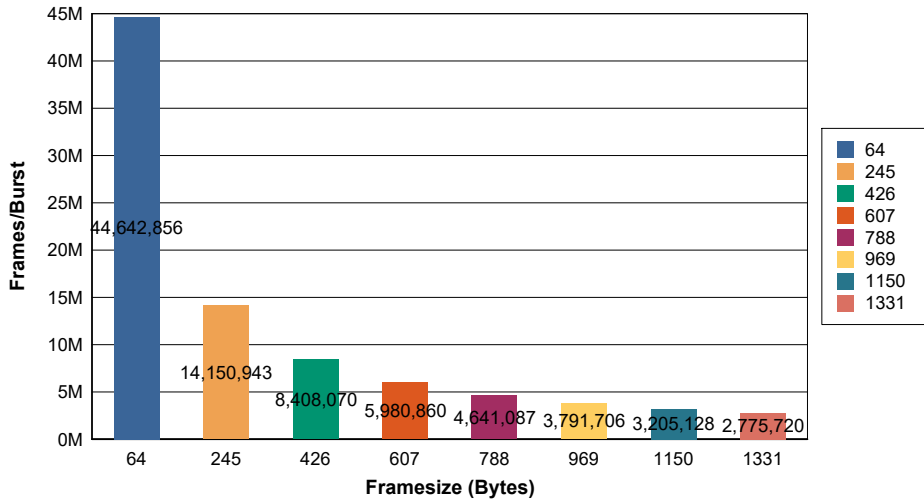
Frame Length	Frame Per Burst
64	44 642 856 Frames/Burst
245	14 150 943 Frames/Burst
426	8 408 070 Frames/Burst
607	5 980 860 Frames/Burst
788	4 641 087 Frames/Burst
969	3 791 706 Frames/Burst
1150	3 205 128 Frames/Burst
1331	2 775 720 Frames/Burst

West Port ----> East Port

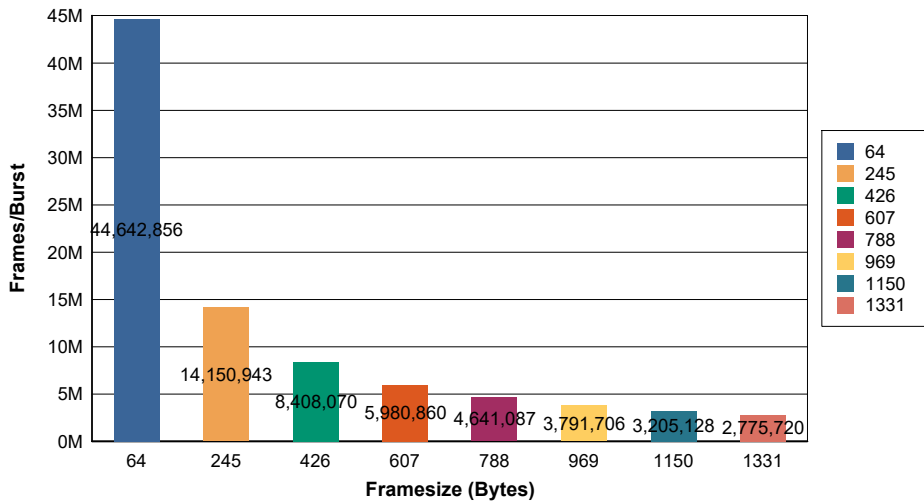
Frame Length	Frame Per Burst
64	44 642 856 Frames/Burst
245	14 150 943 Frames/Burst
426	8 408 070 Frames/Burst
607	5 980 860 Frames/Burst
788	4 641 087 Frames/Burst
969	3 791 706 Frames/Burst
1150	3 205 128 Frames/Burst
1331	2 775 720 Frames/Burst

BackToBack Graph

East To West BackToBack Graph



West To East BackToBack Graph



Global Configuration

Minimum Frame Length : 64

Maximum Frame Length : 16000

Framesize

Quantity : 8

64	245	426	607	788
969	1150	1331	-	-
-	-	-	-	-
-	-	-	-	-

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

Latency East Port <-> West Port

Trial Duration (sec) : 3
Number Of Trials : 1
Bandwidth (%) : 100.000 | 100.000

FrameLoss East Port <-> West Port

Trial Duration (sec) : 2
Number Of Trials : 1
Min Bandwidth (%) : 1.00 | 1.00
Max Bandwidth (%) : 100.00 | 100.00

BackToBack East Port <-> West Port

Trial Duration (sec) : 3
Number Of Trials : 1
Burst Size (msec) : 400 | 400
Number Of Bursts : 1 | 1

Port - 1 TxRx Configuration

MAC

Layer : UDP

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

Destination MAC Address : 33-33-33-33-33-33

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 : 192.168.1.22

Subnet Mask : 255.255.255.0

Enable Default Gateway : Disabled

Default Gateway : 192.168.1.1

Dest IPv4 Address : 192.168.1.33

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 : 2000

Destination UDP Port : 3000

UDP Checksum Enable : Enabled

UDP Checksum : -

Payload

Payload : 1234

Port - 2 TxRx Configuration

MAC

Layer : UDP

Source MAC Address : 33-33-33-33-33-33

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

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 : 192.168.1.33

Subnet Mask : 255.255.255.0

Enable Default Gateway : Disabled

Default Gateway : 192.168.1.1

Dest IPv4 Address : 192.168.1.22

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 : 3000

Destination UDP Port : 2000

UDP Checksum Enable : Enabled

UDP Checksum : -

Payload

Payload : 1234

