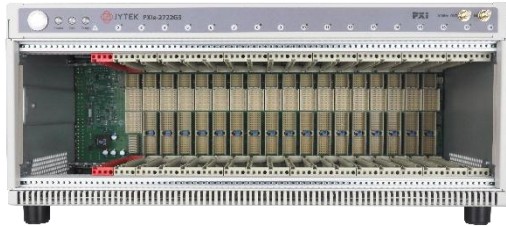


PXle-2722 series

18-slot All-hybrid PXI Express Chassis



🔗 Please download JYTEK [<JYPEDIA>](#), you can quickly inquire the product prices, the key features and available accessories.

Overview

PXle-2722 series are a flexibility and high performance 18-slot all-hybrid PXIe chassis which features up to 24 GB/s system bandwidth and 58 W of power and cooling in every slot. Provide two major models: PCIe Gen 2 (PXle-2722G2) and Gen 3 (PXle-2722G3) to meet your bandwidth requirements.

Main Features

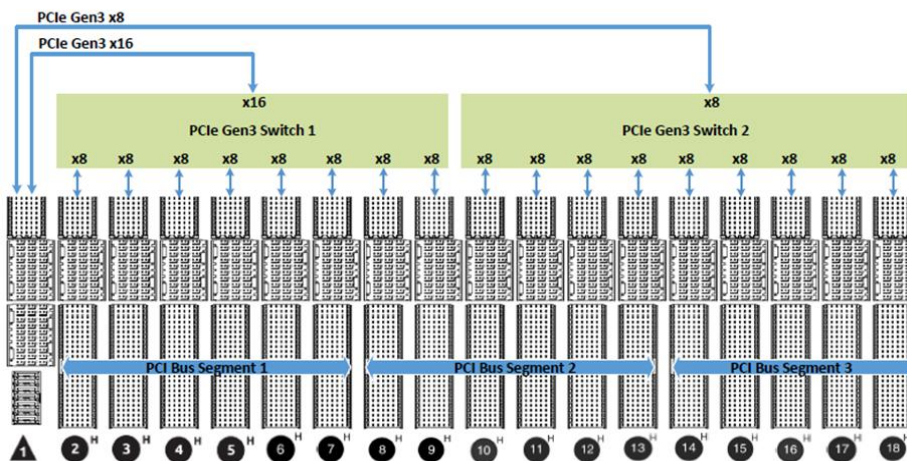
- PXI-5 PXI Express hardware specification Rev.1.0 compliant
- High data throughput 18-slot PCIe Gen2 (PXle-2722G2) or Gen3 (PXle-2722G3) PXIe chassis
- Up to 24 GB/s system bandwidth (PXle-2722G3)
- Up to 8 GB/s slot bandwidth for all peripheral slots (PXle-2722G3)
- High clock accuracy and low phase jitter
- Low power ripple-noise
- Specially designed for cost effective PXI/PXIe applications
- 0°C to 55°C extended operating temperature range
- Ideal for OEM vendors

Specifications

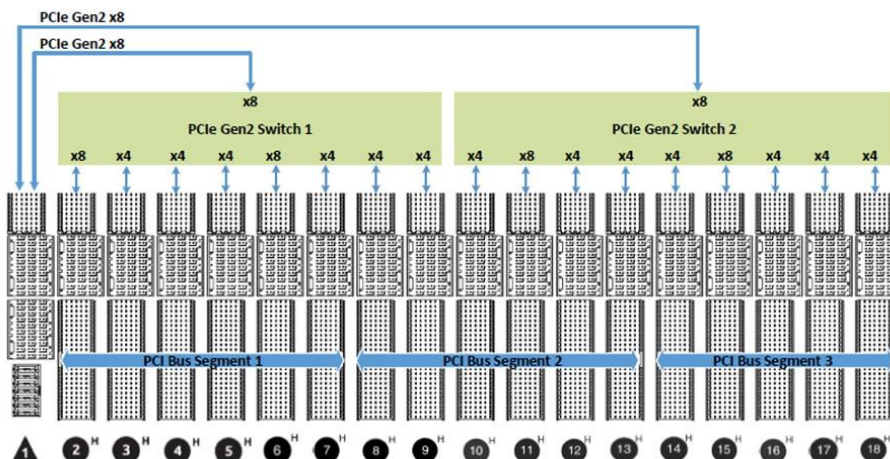
Basic

Descriptions	PXIe-2722G3	PXIe-2722G2
PXI Chassis Type	PXIe	PXIe
Slot Count	18	18
Maximum slot bandwidth	8 GB/s (PCIe Gen3 x8)	4 GB/s (PCIe Gen2 x4 or x8)
Maximum system bandwidth	24 GB/s (PCIe Gen3 x24)	8 GB/s (PCIe Gen2 x16)
Chassis Power Supply Type	AC	AC
Slot Cooling Capacity	58 W (0°C ~ 40°C) 38W (0°C ~ 55°C)	58 W (0°C ~ 40°C) 38W (0°C ~ 55°C)
Onboard Clock Type	VCXO	VCXO
External Clocking	Yes	Yes
Number of hybrid slots	17	17
Number of PXIe slots	0	0
Number of PXI slots	0	0
System timing slot	No	No
External Trigger Access	No	No
Redundant HW	No	No

Gen3 backplane configuration diagram



Gen2 backplane configuration diagram



Electrical

AC Input

Total Chassis Power	1300 W
Input voltage range	100 to 240 VAC
Input frequency	50/60 Hz
Input current rating	12-6 A
Efficiency	91%

DC Output

Total Available Power	1170W (0°C ~ 45°C , 220VAC) 990W (45°C ~ 55°C , 220VAC)
+3.3 V	77 A
+5 V	53 A
+12 V	72 A
-12 V	4 A
5 Vaux	4 A
+3.3V Load Regulation	5%
+5V Load Regulation	5%
+12V Load Regulation	5%
-12V Load Regulation	5%
5Vaux Load Regulation	5%
+3.3V Maximum Ripple and Noise	39 mVpp
+5V Maximum Ripple and Noise	19 mVpp
+12V Maximum Ripple and Noise	15 mVpp
-12V Maximum Ripple and Noise	4 mVpp
5Vaux Maximum Ripple and Noise	4 mVpp

Maximum power dissipation

System Controller Slot	140W
Hybrid Peripheral Slot	58W

System Controller Slot Current Capacity

+3.3 V	15 A
+5 V	15 A
+12 V	30 A
5 Vaux	3 A

Hybrid Peripheral Slot with PXI-5 Peripheral Slot Current Capacity

+3.3 V	9 A
+12 V	6 A
5 Vaux	1 A

Hybrid Peripheral Slot with PXI-1 Peripheral Slot Current Capacity

+3.3 V	6 A
+5 V	6 A
+12 V	1 A
-12 V	1 A
V (I/O)	11 A

System Synchronization Clock

PXI_CLK10

Maximum slot-to-slot skew	160 ps
Accuracy	±15 ppm max
Maximum jitter	3.5 ps RMS phase-jitter (10 Hz–1 MHz range)
Duty-factor	45%–55%
Unloaded signal swing	3.3 V ±0.3 V

PXIe_CLK100

Maximum slot-to-slot skew	125 ps
Accuracy	±15 ppm max
Maximum jitter	1.7 ps RMS phase-jitter (12 kHz–20 MHz range)
Duty-factor	45%–55%
Absolute differential voltage	400–1000 mV

PXIe_SYNC100

Maximum slot-to-slot skew	125 ps
Accuracy	±15 ppm max
Maximum jitter	3.6 ps RMS phase-jitter (12 kHz–20 MHz range)
Duty-factor	45%–55%
Absolute differential voltage	400–1000 mV

External 10 MHz Reference Output (SMA connector)

Maximum jitter	3.3 ps RMS phase-jitter (10 Hz–1 MHz range)
Output amplitude	1 VPP ±20% square-wave into 50 Ω 2 VPP unloaded
Output impedance	50 Ω ±5 Ω

External 10 MHz Reference Input (SMA connector)

Frequency	10 MHz ±100 PPM
Input amplitude	100 mVPP to 5 VPP square-wave or sine-wave
Input impedance	50 Ω ±5 Ω

Physical and Environment

Operating Environment

Maximum altitude	3048 m
Ambient temperature range	0 to 55 °C
Relative humidity range	10% to 90%, noncondensing

Storage Environment

Ambient temperature range	-40 °C to 70 °C
Relative humidity range	5% to 95% noncondensing

Shock and Vibration

Operational shock	30 g peak, half-sine, 11 ms pulse duration
Random Vibration (Operating)	5 to 500 Hz, 0.3 Grms, 3 axes
Random Vibration (Nonoperating)	5 to 500 Hz, 2.46 Grms, 3 axes

Sound Pressure Level

Auto fan (up to ~25 °C ambient)	46 dBA
High fan	64 dBA

Sound Power

Auto fan (up to ~25 °C ambient)	56 dBA
High fan	76 dBA

Backplane

Size	3U
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Chassis Size and Weight

Descriptions	PX1e-2722G3	PX1e-2722G2
Width	440.2 mm	440.2 mm
Depth	455.2 mm	455.2 mm
Height	177.8 mm	177.8 mm
Net Weight	12.65 kg	12.65 kg
Gross Weight (with package, power cable)	16.55 kg	16.55 kg

Performance Test

PXle-2722G3 PCIe Bus Throughput

Slot	Fixture	Test Result
1	PXle-63987 + PXle RAID Card*2 + Samsung 970 EVO Plus SSD 500MB *4	Upstream: 10.7GB/s Downstream: 11.5GB/s
2	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.7GB/s Downstream: 6.5GB/s
3	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.8GB/s Downstream: 6.5GB/s
4	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.6GB/s Downstream: 6.5GB/s
5	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.7GB/s Downstream: 6.5GB/s
6	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.4GB/s Downstream: 6.5GB/s
7	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.9GB/s Downstream: 6.5GB/s
8	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 7.2GB/s Downstream: 6.5GB/s
9	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.5GB/s Downstream: 6.5GB/s
10	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.5GB/s Downstream: 6.5GB/s
11	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.6GB/s Downstream: 6.5GB/s
12	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.6GB/s Downstream: 6.5GB/s
13	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.8GB/s Downstream: 6.5GB/s
14	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.5GB/s Downstream: 6.5GB/s
15	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.5GB/s Downstream: 6.5GB/s
16	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.9GB/s Downstream: 6.5GB/s
17	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.7GB/s Downstream: 6.5GB/s
18	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 500MB *2	Upstream: 6.5GB/s Downstream: 6.5GB/s

Slot1:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
檔案(F) 設定(S) 設定權(P) 佈景主題(T) 說明(H) 語言(Language)			
All	5	1GiB	D: 0% (0/1863GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		10.735	11.567
SEQ1M Q1T1		7.876	7.996
RND4K Q32T16		1.627	1.932
RND4K Q1T1		0.055	0.150

Slot2:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
檔案(F) 設定(S) 設定權(P) 佈景主題(T) 說明(H) 語言(Language)			
All	5	1GiB	D: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.706	6.573
SEQ1M Q1T1		5.017	5.279
RND4K Q32T16		1.244	1.913
RND4K Q1T1		0.050	0.150

Slot3:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
檔案(F) 設定(S) 設定權(P) 佈景主題(T) 說明(H) 語言(Language)			
All	5	1GiB	F: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.826	6.569
SEQ1M Q1T1		5.024	5.285
RND4K Q32T16		1.258	2.039
RND4K Q1T1		0.050	0.154

Slot4:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
File Settings Profile Theme Help Language			
All	5	1GiB	D: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.667	6.506
SEQ1M Q1T1		5.042	5.282
RND4K Q32T16		1.257	1.844
RND4K Q1T1		0.050	0.151

Slot5:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
File Settings Profile Theme Help Language			
All	5	1GiB	E: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.730	6.524
SEQ1M Q1T1		5.010	5.279
RND4K Q32T16		1.256	1.845
RND4K Q1T1		0.051	0.151

Slot6:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
檔案(F) 設定(S) 設定權(P) 佈景主題(T) 說明(H) 語言(Language)			
All	5	1GiB	D: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.490	6.552
SEQ1M Q1T1		5.011	5.181
RND4K Q32T16		1.268	1.877
RND4K Q1T1		0.050	0.147

Slot7:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
File Settings Profile Theme Help Language			
All	5	1GiB	D: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.992	6.537
SEQ1M Q1T1		5.065	5.297
RND4K Q32T16		1.298	1.891
RND4K Q1T1		0.052	0.154

Slot8:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
File Settings Profile Theme Help Language			
All	5	1GiB	E: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		7.241	6.565
SEQ1M Q1T1		5.020	5.299
RND4K Q32T16		1.248	1.889
RND4K Q1T1		0.050	0.152

Slot9:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
File Settings Profile Theme Help Language			
All	5	1GiB	D: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.524	6.564
SEQ1M Q1T1		5.030	5.301
RND4K Q32T16		1.285	1.891
RND4K Q1T1		0.051	0.153

Slot10:

CrystalDiskMark 7.0.0 x64 [ADMIN]			
檔案(F) 設定(S) 設定權(P) 佈景主題(T) 說明(H) 語言(Language)			
All	5	1GiB	F: 0% (0/931GiB)
		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1		6.535	6.566
SEQ1M Q1T1		5.017	5.286
RND4K Q32T16		1.265	1.892
RND4K Q1T1		0.051	0.152

Slot11:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.605	6.568
SEQ1M Q1T1	5.003	5.194
RND4K Q32T16	1.277	1.849
RND4K Q1T1	0.051	0.147

Slot12:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.617	6.556
SEQ1M Q1T1	5.029	5.186
RND4K Q32T16	1.256	1.872
RND4K Q1T1	0.050	0.147

Slot13:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.877	6.574
SEQ1M Q1T1	5.013	5.184
RND4K Q32T16	1.241	1.850
RND4K Q1T1	0.050	0.147

Slot14:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.551	6.566
SEQ1M Q1T1	5.015	5.163
RND4K Q32T16	1.264	1.871
RND4K Q1T1	0.050	0.146

Slot15:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.522	6.565
SEQ1M Q1T1	5.029	5.175
RND4K Q32T16	1.285	1.880
RND4K Q1T1	0.051	0.148

Slot16:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.927	6.565
SEQ1M Q1T1	5.000	5.165
RND4K Q32T16	1.267	1.879
RND4K Q1T1	0.051	0.148

Slot17:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.711	6.567
SEQ1M Q1T1	5.040	5.195
RND4K Q32T16	1.257	1.861
RND4K Q1T1	0.050	0.150

Slot18:

All	Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	6.543	6.568
SEQ1M Q1T1	4.979	5.180
RND4K Q32T16	1.253	1.889
RND4K Q1T1	0.050	0.145

Note: PXIe-63987 has only 16GB/s PCIe bus bandwidth.

PXle-2722G2 PCIe Bus Throughput

Slot	Fixture	Test Result
1	PXle-63987 + PXle RAID Card*2 + Samsung 970 EVO Plus SSD 1TB *4	Upstream: 7.3GB/s Downstream: 7.1GB/s
2	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 3.6GB/s Downstream: 3.5GB/s
3	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
4	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
5	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
6	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 3.6GB/s Downstream: 3.5GB/s
7	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
8	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
9	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
10	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
11	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 3.6GB/s Downstream: 3.5GB/s
12	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
13	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
14	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
15	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 3.6GB/s Downstream: 3.5GB/s
16	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
17	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s
18	PXle-63987 + PXle RAID Card*1 + Samsung 970 EVO Plus SSD 1TB *2	Upstream: 1.8GB/s Downstream: 1.7GB/s

Slot1:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/3726GiB)
SEQ1M Q8T1		7.346	7.177
SEQ1M Q1T1		5.360	5.236
RND4K Q32T16		1.590	1.873
RND4K Q1T1		0.051	0.144

Slot2:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		3.676	3.597
SEQ1M Q1T1		3.145	3.096
RND4K Q32T16		1.101	1.880
RND4K Q1T1		0.047	0.146

Slot3:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.700	1.651
RND4K Q32T16		1.384	1.742
RND4K Q1T1		0.050	0.140

Slot4:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.699	1.652
RND4K Q32T16		1.373	1.742
RND4K Q1T1		0.049	0.140

Slot5:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.700	1.651
RND4K Q32T16		1.370	1.742
RND4K Q1T1		0.049	0.140

Slot6:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		3.677	3.598
SEQ1M Q1T1		3.134	3.068
RND4K Q32T16		1.440	1.873
RND4K Q1T1		0.049	0.144

Slot7:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.700	1.652
RND4K Q32T16		1.301	1.742
RND4K Q1T1		0.046	0.140

Slot8:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.687	1.652
RND4K Q32T16		1.375	1.742
RND4K Q1T1		0.049	0.140

Slot9:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.698	1.651
RND4K Q32T16		1.406	1.742
RND4K Q1T1		0.050	0.138

Slot10:

		Read [GB/s]	Write [GB/s]
All	5	1GiB	D: 0% (0/1863GiB)
SEQ1M Q8T1		1.839	1.783
SEQ1M Q1T1		1.700	1.651
RND4K Q32T16		1.355	1.742
RND4K Q1T1		0.048	0.140

Slot11:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	3.677	3.598	
SEQ1M Q1T1	3.137	3.065	
RND4K Q32T16	1.431	1.895	
RND4K Q1T1	0.049	0.146	

Slot12:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	1.839	1.783	
SEQ1M Q1T1	1.698	1.652	
RND4K Q32T16	1.332	1.742	
RND4K Q1T1	0.047	0.139	

Slot13:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	1.839	1.783	
SEQ1M Q1T1	1.699	1.652	
RND4K Q32T16	1.378	1.741	
RND4K Q1T1	0.049	0.140	

Slot14:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	1.839	1.783	
SEQ1M Q1T1	1.699	1.651	
RND4K Q32T16	1.366	1.740	
RND4K Q1T1	0.049	0.139	

Slot15:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	3.676	3.597	
SEQ1M Q1T1	3.135	3.065	
RND4K Q32T16	1.414	1.890	
RND4K Q1T1	0.048	0.146	

Slot16:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	1.839	1.783	
SEQ1M Q1T1	1.697	1.650	
RND4K Q32T16	1.365	1.742	
RND4K Q1T1	0.048	0.138	

Slot17:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	1.839	1.783	
SEQ1M Q1T1	1.700	1.651	
RND4K Q32T16	1.406	1.742	
RND4K Q1T1	0.051	0.139	

Slot18:

		Read [GB/s]	Write [GB/s]
SEQ1M Q8T1	1.839	1.784	
SEQ1M Q1T1	1.700	1.651	
RND4K Q32T16	1.383	1.742	
RND4K Q1T1	0.049	0.139	

Order Information

- PXIe-2722G3 (PN: JY2722010-01)
3U 18-slot All-hybrid PXI Express Gen3 Chassis ,24GB/s system bandwidth
- PXIe-2722G2 (PN: JY2722020-01)
3U 18-slot All-hybrid PXI Express Gen2 Chassis,8GB/s system bandwidth

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