

PXIe-2312

5 All-hybrid slots PXI Express Thunderbolt 3 remote Chassis



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Overview

The PXIe-2312 is a PXI Express remote chassis with 5 PXI Express hybrid slots and integrated Intel Thunderbolt 3 interface. It provides convenience and high performance for PXI test and measurement. It has two Thunderbolt 3 ports in the front of the chassis. One port can connect to host PC equipped with Thunderbolt 3 port, another port can downstream to next chassis or USB-C device.

Main Features

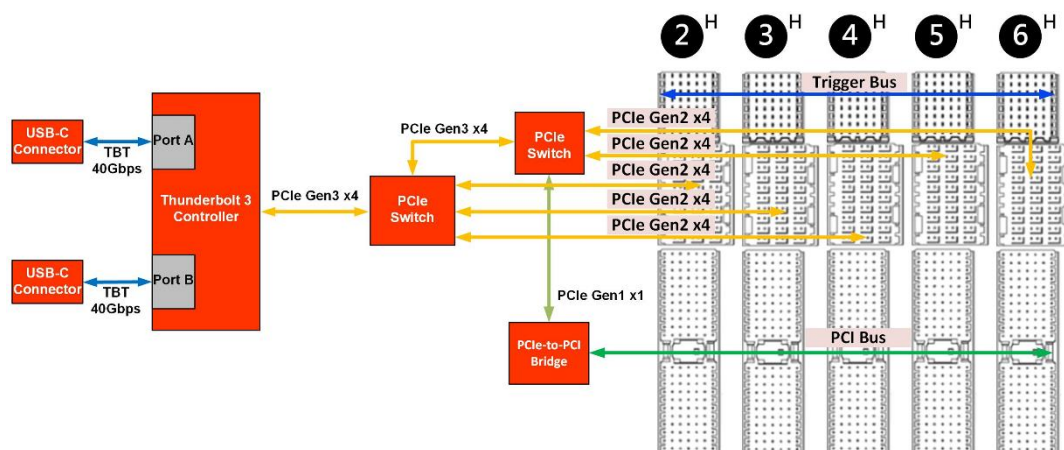
- Two Thunderbolt 3 ports
- 5 PXI Express hybrid slots
- 2.75 GB/s system bandwidth
- 2 GB/s slot bandwidth (PCIe Gen2 x4)
- Support daisy-chain chassis capability
- High clock accuracy and low phase jitter
- Low power ripple-noise
- Specially designed for cost effective PXI/PXIe applications
- Smart fan and chassis status monitoring

Specifications

Basic

PXI Chassis Type	PXIe
Slot Count	5
Maximum system bandwidth	2.75 GB/s
Maximum slot bandwidth	2 GB/s (PCIe Gen2 x 4)
Chassis Power Supply Type	AC
Slot Cooling Capacity	58 W (0 °C~40 °C) 38 W (0 °C~50 °C)
Onboard Clock Type	VCXO
Number of hybrid slots	5
<i>Note: maximum system bandwidth defined as maximum data rate between host PC and chassis backplane.</i>	

Block Diagram



Electrical

AC Input

Total Chassis Power	472 W
Input voltage range	90 to 264 VAC
Input frequency	47~63 Hz
Input current rating	6-3 A
Efficiency	80% ~ 85%

DC Output

Total Available Power	380 W
+3.3 V maximum current	20 A
+5 V maximum current	20 A
+12 V maximum current	30 A
-12 V maximum current	0.8 A
5 Vaux maximum current	3.5 A

System Synchronization Clock

PXI_CLK10

Maximum slot-to-slot skew	66 ps
Accuracy	±7.4 ppm max
Maximum jitter	3.7 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	80ps
Accuracy	±6.9 ppm max
Maximum jitter	3.7 ps RMS phase-jitter (10 Hz–12 kHz range) 95 fs RMS phase-jitter (12 kHz–20 MHz range)
Duty-factor	45%–55%
Absolute differential voltage	400–1000 mV

PXIe_SYNC100

Duty-factor	10%
Absolute differential voltage	400–1000 mV

Physical and Environment

Operating Environment

Maximum altitude	5000 m
Ambient temperature range	0 to 50 °C
Relative humidity range	20 to 80%, noncondensing

Storage Environment

Ambient temperature range	-20 °C to 80 °C
Relative humidity range	10% to 90%, noncondensing

Shock and Vibration

Operational shock	30 g peak, half-sine, 11 ms pulse duration
Random Vibration (Operating)	5 to 500 Hz, 0.21 Grms, 3 axes
Random Vibration (Nonoperating)	5 to 500 Hz, 2.46 Grms, 3 axes

Sound Pressure Level

Auto fan (up to ~30 °C ambient)	35.3 dBA
High fan	60.8 dBA

Sound Power

Auto fan (up to ~30 °C ambient)	50.0 dBA
High fan	71.4 dBA

Backplane

Size	3 U
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Chassis Size and Weight

Width	213.4 mm
Depth	306.7 mm
Height	175.4 mm
Weight	5.7 kg

Order Information

- PXIe-2312 (PN: JA2312001-01)
3U 5-slot all-hybrid PXIe Thunderbolt 3 remote chassis with universal AC power supply

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