

# PXIe-2519 Series

## 9-slot All-hybrid PXI Express Chassis



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### Overview

The PXIe-2519 is a high performance and cost-effective PXI Express chassis with 8 hybrid slots. It is a new designed chassis for wide range of automated test and measurement application. The PXIe-2519 Series have two models, PXIe-2519G3 (PCI Express Gen3) and PXIe-2519G2 (PCI Express Gen2) to meet variety performance and bandwidth requirements. The all-hybrid slot design can support legacy PXI modules and advanced PXI Express modules in the same chassis.

### Main Features

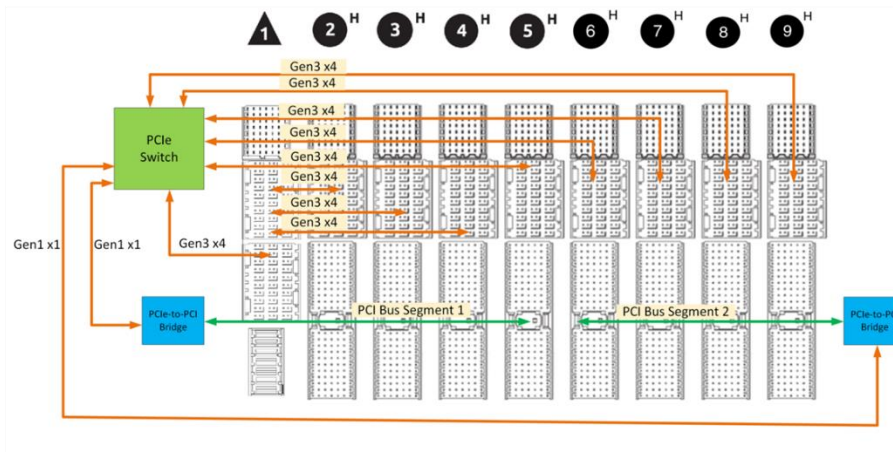
- PXI™-5 PXI Express hardware specification Rev.1.0 compliant
- 8 hybrid slots
- High data throughput PCIe Gen2 PXIe Chassis (PXIe-2519G2) or PCIe Gen3 PXIe chassis (PXIe-2519G3)
- Up to 16 GB/s system bandwidth (PXIe-2519G3)
- Up to 4 GB/s slot bandwidth for all peripheral slots (PXIe-2519G3)
- Specially designed for cost-effective automated test and measurement applications
- High clock accuracy and low phase jitter
- Low power ripple noise
- 0°C to 55°C extended operating temperature range
- Smart fan and chassis status monitoring
- Ideal for OEM vendors

## Specifications

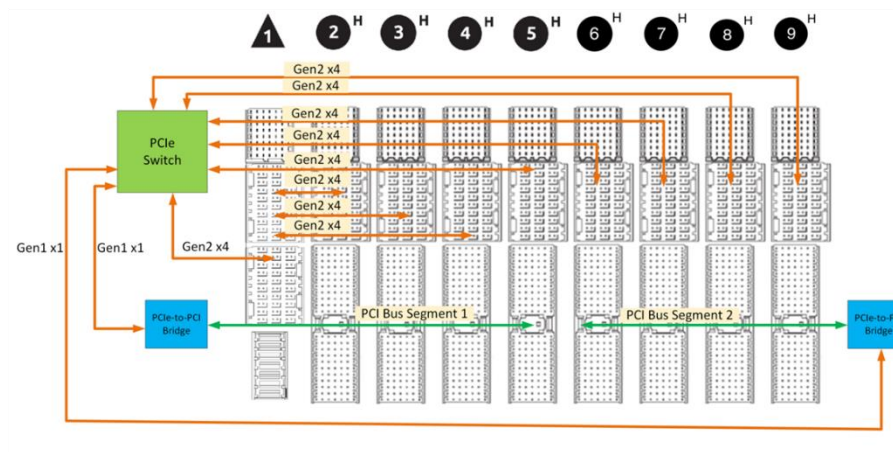
### Basic

Descriptions	PXIe-2519G3	PXIe-2519G2
PXI Chassis Type	PXIe	PXIe
Slot Count	9	9
Maximum slot bandwidth	4 GB/s (PCIe Gen3 x4)	2 GB/s (PCIe Gen2 x4 )
Maximum system bandwidth	16 GB/s (PCIe Gen3 x16)	8 GB/s (PCIe Gen2 x16)
Chassis Power Supply Type	AC	AC
Slot Cooling Capacity	58 W (0°C ~ 40°C) 38 W (0°C ~ 50°C)	58 W (0°C ~ 40°C) 38 W (0°C ~ 50°C)
Onboard Clock Type	VCXO	VCXO
External Clocking	No	No
Number of hybrid slots	8	8
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

## PXle-2519G3 backplane configuration diagram



## PXle-2519G2 backplane configuration diagram



## Electrical

### AC Input

Descriptions	PXle-2519G3	PXle-2519G2
Total Chassis Power	714 W	714 W
Input voltage range	115 to 240 VAC	115 to 240 VAC
Input frequency	47~63 Hz	47~63 Hz
Input current rating	8-4 A	8-4 A
Efficiency	70%	70%

### DC Output

Descriptions	PXle-2519G3	PXle-2519G2
Total Available Power	480 W	480 W
+3.3 V maximum current	30 A	30 A
+5 V maximum current	40 A	40 A
+12 V maximum current	32 A	32 A
-12 V maximum current	1.0 A	1.0 A
5 Vaux maximum current	2.0 A	2.0 A
Note: +5 V & +3.3 V total max current 50 A		

### Maximum power dissipation

Descriptions	PXle-2519G3	PXle-2519G2
System Controller Slot	140 W	140 W
Hybrid Peripheral Slot	58 W	58 W

### System Controller Slot Current Capacity

Descriptions	PXle-2519G3	PXle-2519G2
+3.3 V	15 A	15 A
+5 V	15 A	15 A
+12 V	30 A	30 A
5 Vaux	3 A	3 A

### Hybrid Peripheral Slot with PXI-5 Peripheral Slot Current Capacity

Descriptions	PXle-2519G3	PXle-2519G2
+3.3 V	9 A	9 A
+12 V	6 A	6 A
5 Vaux	1 A	1 A

### Hybrid Peripheral Slot with PXI-1 Peripheral Slot Current Capacity

Descriptions	PXIe-2519G3	PXIe-2519G2
+3.3 V	6 A	6 A
+5 V	6 A	6 A
+12 V	1 A	1 A
-12 V	1 A	1 A
V (I/O)	11 A	11 A

### System Synchronization Clock

#### PXI\_CLK10

Maximum slot-to-slot skew	66 ps
Accuracy	±25 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	80 ps
Accuracy	±25 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

Maximum slot-to-slot skew	66 ps
Accuracy	±25 ppm max
Maximum jitter	3.7 ps RMS phase-jitter (10 Hz–12 kHz range) 4.8 ps RMS phase-jitter (12 kHz–20 MHz range)
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	10 to 90%, noncondensing

**Storage Environment**

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

**Shock and Vibration**

Operational shock	30 g peak, half-sine, 11 ms pulse duration
Random Vibration (Operating)	5 to 500 Hz, 0.31 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)	59 dBA
High fan	62 dBA

**Sound Power**

Auto fan (up to ~30 °C ambient)	66 dBA
High fan	69 dBA

**Backplane**

Size	3 U
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**Chassis Size and Weight**

Width	274.36 mm
Depth	306.7 mm
Height	175.4 mm
Weight	6.5 kg

## Order Information

- PXIe-2519G3 (PN: JA2519002-03)  
3U 9-slot PXIe Gen3 chassis with all-hybrid peripheral slots and universal AC power supply
- PXIe-2519G2 (PN: JA2519001-02)  
3U 9-slot PXIe Gen2 chassis with all-hybrid peripheral slots and universal AC power supply

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