PXES-2301

6 Slot All-Hybrid 3U PXIe Chassis
AC-powered with 8GB/s System Bandwidth Capability

Features

- Entry level platform provides an ideal balance between performance and price point
- Compact half-rack for portable application in a wide variety of testing environments
- Replaceable modular cooling fan reduces maintenance requirements
- High per-slot cooling capacity up to 38W
- Intelligent chassis management with automatic fan speed control and temperature/power status monitoring
- System bandwidth up to 8GB/S & peripheral bandwidth up to 2GB/s for all slots
- Low fan noise 35.3 dBA at ambient 25 °C



Introduction

The ADLINK PXES-2301 compact 6-slot PXI Express chassis, compliant with PXI Express and cPCI Express specifications, provides one system slot with three expansion slots and five hybrid peripheral slots, supporting a wide variety of enhanced-bandwidth testing and measurement applications. The hybrid-slot design accepts installation of CompactPCI, PXI, CompactPCI Express, and PXI Express modules in any peripheral slot for maximum flexibility. Built on a four-link PXI Express chassis with 8GB/s system bandwidth, the PXES-2301's peripheral slots are all connected with PCIe gen2 x4, with slot bandwidth up to 2GB/s. The PXES-2301 implements a smart system monitoring controller, reporting full chassis status including fan speed, system voltages, and internal temperature.

The compact, rugged, half-rack size with efficient construction uniquelty suits the PXES- 2301 for portable use with minimized space requirements. An industrial grade AC power supply delivers 320W performance under 50°C, with superior cooling capacity. All in all, the PXES-2301 is an ideal PXI Express platform choice for practically any testing and measurement operation.

Ordering information

- **PXES-2301**
  6 All-Hybrid Slot 3U PXI Express Chassis with up to 8GB/s System Bandwidth and Universal AC Power Supply

Optional Accessories

- **PXES-2301 Rack-Mount Kit**
  Flexible rack-mount kit for PXES-2301

Recommended System Controller

- **PXIe-3977**
  3U Intel® Core™ i5-7440EQ Processor-based PXI Express Gen3 Controller
- **PXIe-3987**
  3U Intel® Core™ i7-7820EQ Quad-Core Processor-based PXI Express Gen3 Controller

Specifications

Power Supply

- **AC Input**
  - Input voltage range: 100 to 240VAC
  - Input voltage frequency: 47 to 63Hz
- **DC Output**

  Maximum 320W total usable power

VDC	Maximum	Load Regulation	Maximum Ripple & Noise
5v	15A	±5%	50mV
12v	23A	±5%	120mV
3.3v	15A	±5%	50mV
-12v	0.5A	±5%	120mV

Bus Interface

- Four-link capacity PXI Express chassis
- Up to 8GB/s system bandwidth
- Up to 2 GB/s peripheral bandwidth for all slots

IO/Switch on Rear Panel

- Fan speed selector switch

Cooling

- Fans: 2 x 100.21 CFM fans
- Per-slot cooling capacity: 38W

Acoustic Emissions

- **Sound Pressure Level (dBA)**
  - Auto fan (up to 25 °C ambient): 35.3 dBA
  - High fan: 60.8 dBA
- **Sound Power (dBA)**
  - Auto fan (up to 25 °C ambient): 50.0 dBA
  - High fan: 71.4 dBA

*Tested in accordance with ISO 7779

Physical

- **Number of slots:**
  - 1 system slot
  - 5 peripheral slots
- **Dimensions:**

  220.8mm (W) x 319.6mm (D), 177.8mm (H)
- **Weight:**

  5.85Kg

Operating Environment

- Ambient temperature:

  0°C to 50°C (32°F to 122°F)
- Relative humidity: 20 to 80%, non-condensing

Storage Environment

- Ambient temperature: -40~71°C (-40~158°F)
- Relative humidity: 10% to 90%, non-condensing

Shock and Vibration

- Functional shock: 30 G, half-sine, 11 ms pulse duration
- Random vibration:
  - Operating: 5 to 500 Hz, 0.21 Grms, 3 axes
  - Non-operating: 5 to 500 Hz, 2.46 Grms, 3 axes

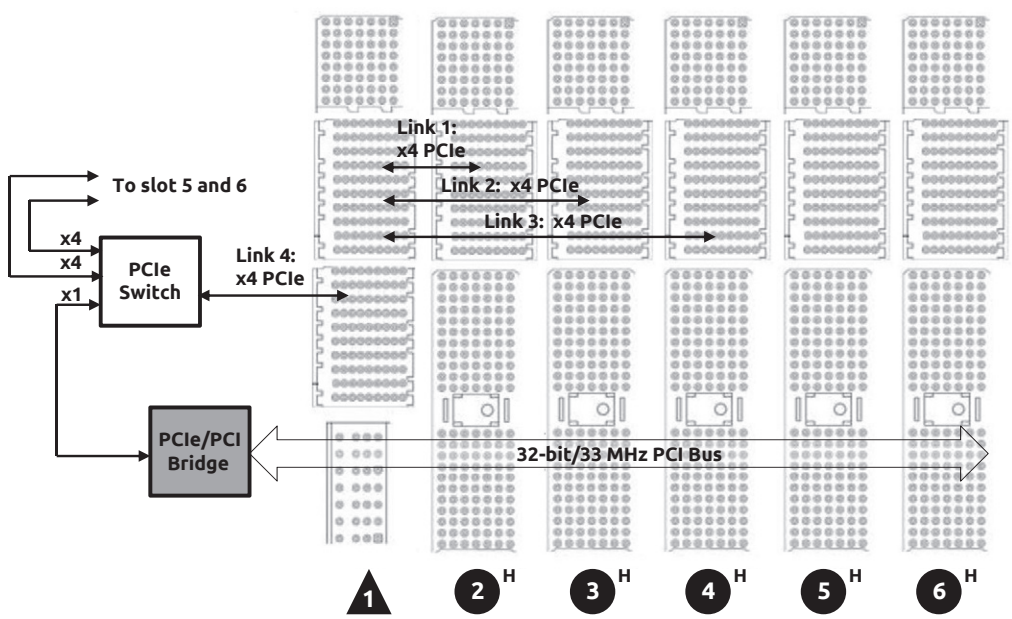
Emissions Compliance

- FCC/ICES-003 (USA / Canada) Class A - EN 61326-1
- CE (Europe) Class A - EN 61326-1

Safety

- CE/LVD (Europe)- EN 61010-1

Topology



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