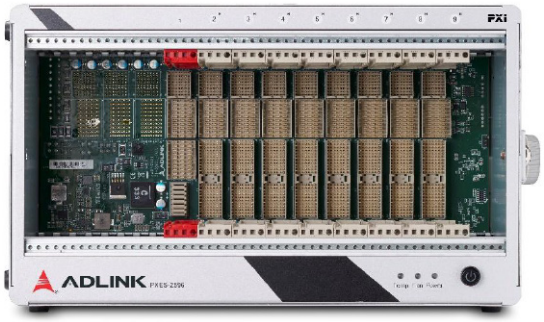
PXES-2596

9/12 Slot All Hybrid 3U PXIe Chassis
ATX powered with 16 GB/s System Bandwidth Capability

Features

- Entry level platform provides an ideal balance between performance and price point
- A simple structure consisting only of the backplane and ATX PSU, making it more user friendly for single board buyers
- Intelligent chassis management with automatic fan speed control and t emperature/power status monitoring
- System bandwidth up t o 16 GB/S & peripheral band width up to 4 GB/s for all slots



Introduction

The ADLINK PXES-2596 is a 9 slot PXI Express all hybrid chassis . It features 1 system slot, and 8 hybrid slots , supporting CompactPCI, PXI, and PXI Express modules for maximum flexibility. Built on a two link PXI Express architecture with 16GB/s system bandwidth, all peripheral slots support PCIe Gen3 x4 , providing up to 4 GB/s per slot.

For expanded configuration, a 12 slot version called PXES-2596E is also available, featuring 1 system slot, 8 hybrid slots, and 3 additional PXI Express peripheral slots. This provides greater slot density and price performance ratio.

Additionally, both version supports single board sales and features an ATX power design without a power board, simplifying integration and making it easier for single board customers to use.

The chassis integrates a smart monitoring system that reports fan speed, system voltages, and internal temperature in real time.

The new fan curve design enables the PXES-2596 to effectively handle Gen3 heat dissipation while delivering up to 58W of cooling capacity per slot.

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Ordering Information

- **PXES-2596**
  9 Slot All Hybrid 3U PXI Express Chassis with up to 16GB/s System Bandwidth and ATX Power Supply
- **PXES-2596E**
  12 Slot version (w/ remote extension or one slot controller)
- **Xebp 2596 (Single board only)**
- **Xebp 2596E (Single board only)**

Accessories

- **Rack Mount Kit**
  Flexible rack mount kit for PXES-2596
- **500W ATX PSU (For single board)**
- **I/O Cables (For single board)**

Specifications

Power Supply

- **AC Input**
  - Input voltage range: 100 to 240 VAC
  - Input voltage frequency: 47 to 63Hz
- **DC Output**
  Maximum 500 W total usable power

Voltage Rail	Max Current Per Chassis	Max Current Per Slot	Load Regulation	Max Ripple and Noise
+5Vsb	2A	1A	±5%	60 mV
+12V	32A	6A	±5%	120 mV
+5V	40A	6A	±5%	60 mV
+3.3V	30A	9A	±5%	60 mV
-12V	+12V transfer	1A	±5%	120 mV

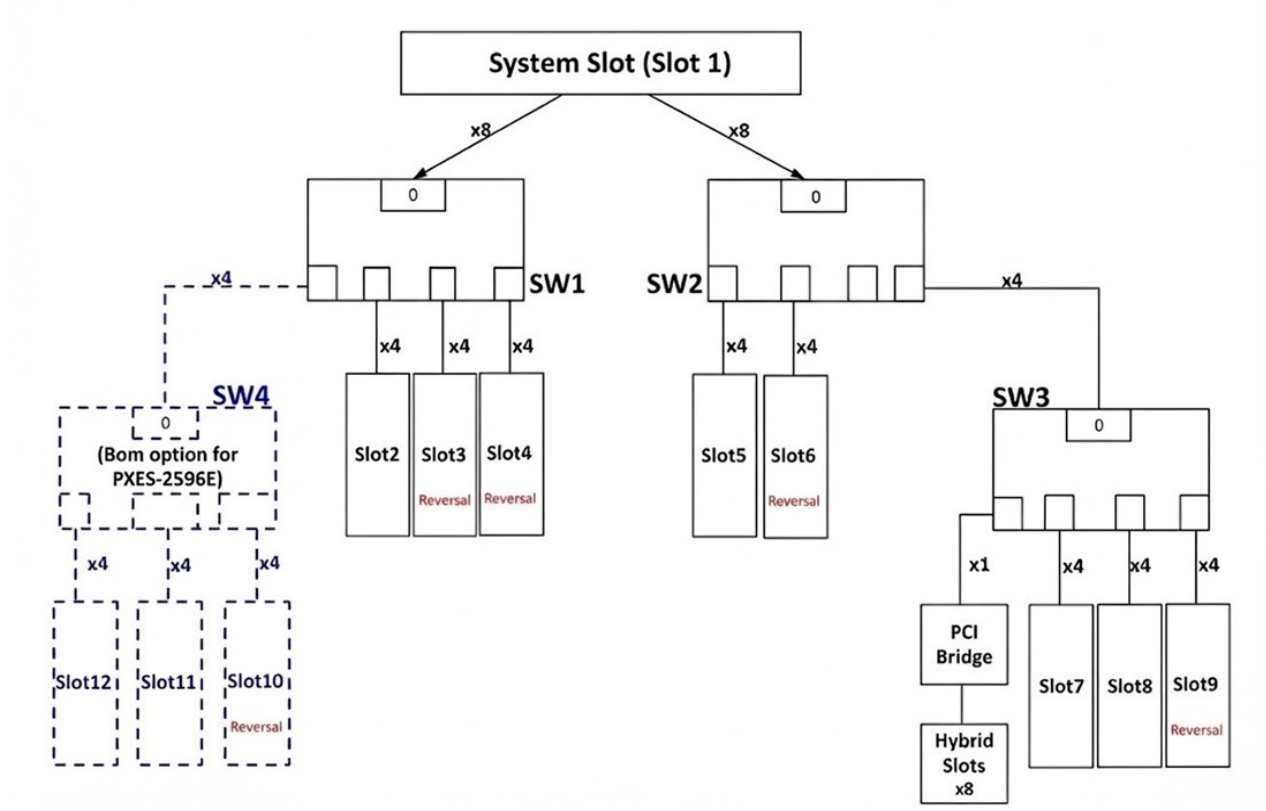
- **Bus Interface**
  - Two link capacity PXI Express chassis
  - Up t o 16GB/s system bandwidth
  - Up t o 8 GB/s peripheral bandwidth for all slots
- **Shock and Vibration**
  - Functional shock: 30G, half sine, 11 ms pulse duration Random vibration
  - Operating: 5 to 500Hz, 0.3 Grms , 3 axes
  - Non operating: 5 to 500Hz, 2.46 Grms , 3 axes

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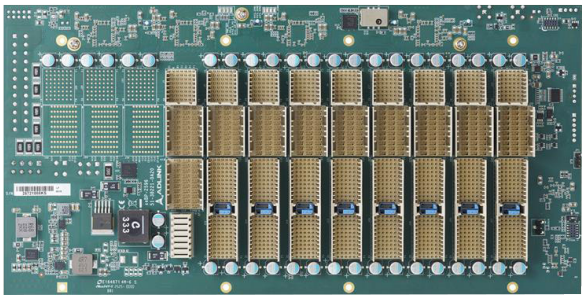
Physical

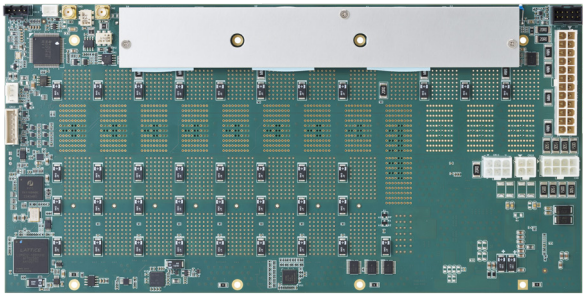
- **Number of slots**
  - 1 PXIe system slot
  - 8 PXIe hybrid slots
  - 3 PXIe peripheral slot (2596E only)
- **Dimensions**
  302.16mm (W) x 457 mm (D) x 177.8 mm (H)
  (11.90" × 17.99" × 7.00")
- **Weight**
  11 kg (24.25 lb)
- **Operating Environment**
  - Ambient t emperature: 0°C t o 50°C (32°F to 122°F)
  - Relative humidity: 10 to 90%, non-condensing
- **Cooling**
  - Fans: 2 x 210.38 CFM fans
  - System cooling capacity :150W
  - Perslot cooling capacity:
    58W (max ambient 40°C)
    38W (max ambient 50°C)
- **Storage Environment**
  - Ambient temperature: -20°C to 70°C (4°F to 158°F)
  - Relative humidity: 10% to 90%, non-condensing
- **IO/Switch on Rear Panel**
  - Fan speed selector switch
  - Inhibit mode selector switch
- **EMC Compliance**
  - IEC61326 1 Class A emissions; Basic immunity
  - FCC 47 CFR Part 15 Subpart B (Class A)
  - AS/NZS CISPR 11: Group 1, Class A emissions
  - AS/NZS CISPR 32: 2015 (Ed 2.0)/C1:2016 : Class A

Topology



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Specifications

- **Operating Environment**
  - Ambient temperature: 0°C to 50°C (32°F to 122°F)
  - Relative humidity: 10 to 90%, non-condensing
- **Storage Environment**
  - Ambient temperature: -20°C to 70°C (-4°F to 158°F)
  - Relative humidity: 10% to 90%, non-condensing
- **Dimensions**
  287.88 mm (W) X 165.45 mm (H)(11.33 " × 6.52 ")
- **Weight**
  0.665 KG (lb)

- **Connector (Rear side)**
  - Fan/inhibit mode selector switch
  - Power button
  - SMA
  - LED
  - Fan
  - ATX PSU

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