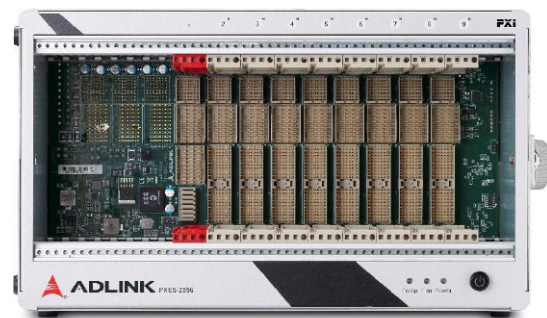


PXES-2596

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 temperature/power status monitoring
- System bandwidth up to 16 GB/s & peripheral bandwidth 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.

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 to 16GB/s system bandwidth
 - Up to 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

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" x 17.99" x 7.00")

• Weight

11 kg (24.25 lb)

• Operating Environment

- Ambient temperature: 0°C to 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

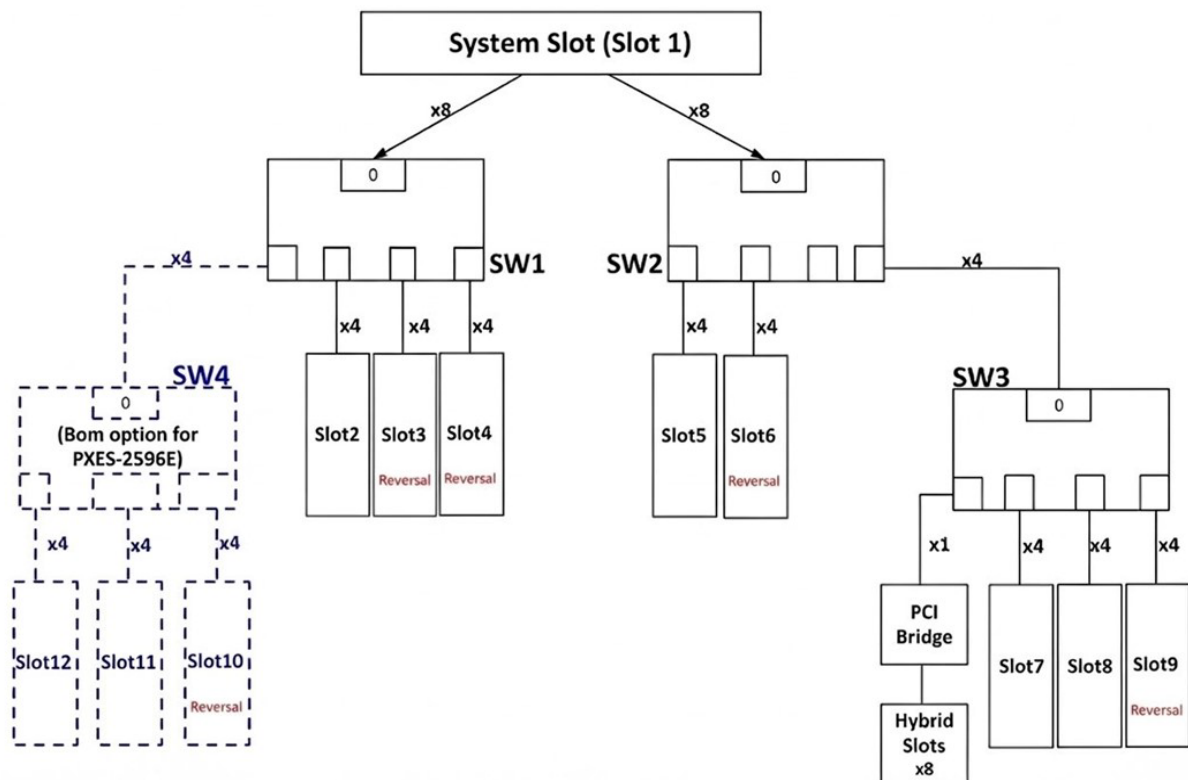
• IO/Switch on Rear Panel

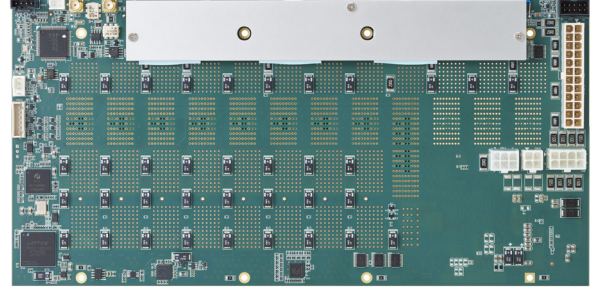
- Fan speed selector switch
- Inhibit mode selector switch

• 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





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