

PXIS-2700

18-Slot 3U PXI/CompactPCI Instrument Chassis with 460 W + 460 W AC Power Supply

Features

- Accepts both 3U PXI and CompactPCI modules
- One system slot and 17 PXI/CompactPCI peripheral slots
- PXI specifications Rev. 2.2 compliant
- IEEE 1101.10 mechanical packaging compliant
- Filtered, forced-air cooling
- 460 W + 460 W redundant power supply with universal AC input
- Temperature, voltage and fan monitoring LED
- 4U high rack-mounted and bench-top installation
- Two PXI-to-PXI bridges



Introduction

ADLINK PXIS-2700 is a 18-slot PXI/CompactPCI chassis providing 17 PXI peripheral slots and one system slot. The chassis incorporates all features defined by the PXI and CompactPCI specifications. Both PXI and CompactPCI modules can be used in this chassis. An internal 10 MHz reference clock is available for all 17 peripheral slots. The PXI trigger bus is divided into three segments by two PXI-to-PXI bridges. Each segment consists of 6 slots. The star trigger signals are available from the 3rd to 15th slots.

The PXIS-2700 is equipped with two 460 W redundant power units to supply reliable and stable power. The status of system power supply, temperature and cooling fans are all monitored by the alarm module assembled in the chassis. Once any failure is detected, a corresponding LED and buzzer will be activated. The failure fans can be removed from the front panel and are hot-swappable, which can reduce MTTR (Mean-Time-To-Repair) efficiently.

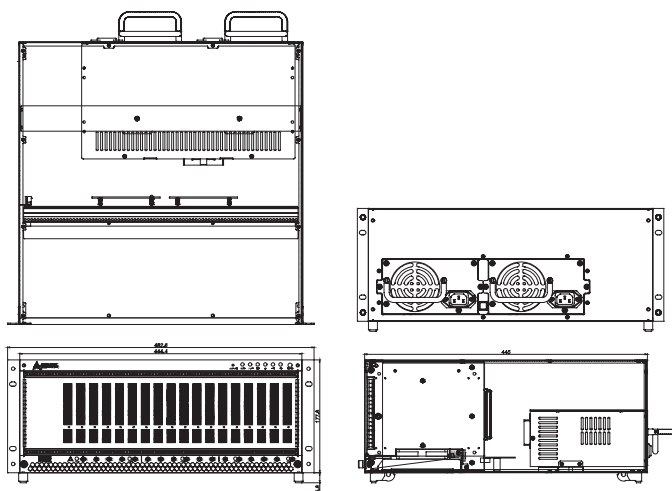
The ADLINK PXI-3800 and PXI-3710/F are exclusively designed to operate with the PXIS-2700 chassis. Thanks to the powerful and convenient design, the PXIS-2700 is ideal for high performance applications and a large number of I/O modules.



Removable Fan



Redundant Power Supply



Temperature, Voltage and Fan Monitoring LED

Specifications

Complies with PXI specifications 2.2 and accepts modules compliant with CompactPCI, PICMG 2.0 specifications.

Electrical

- AC Power Supply
 - 460 W + 460 W redundant power supply
 - Input voltage: 90 to 264 V_{AC}, full range
 - Input frequency: 47 to 63 Hz ± 5%
 - Input current per power module
 - ♦ 4 A_{RMS} for 230 V_{AC}
 - ♦ 8 A_{RMS} for 115 V_{AC}
 - Inrush current per power module
 - ♦ 75 A_{RMS} for 230 V_{AC}
 - ♦ 55 A_{RMS} for 115 V_{AC}
 - Built-in active power factor correction
 - Output
 - ♦ Maximum usable power: 460 W + 460 W
 - ♦ Minimum power: 69 W
 - ♦ DC Output characteristics per module

V _{DC}	Minimum	Maximum	Ripple and noise Max	Load Regulation	Line Regulation
+5 V	5.0 A	40 A	60 mV	±5%	±1%
+12 V	2.5 A	27 A	100 mV	±5%	±1%
-5 V	0 A	0.8 A	100 mV	±5%	±1%
-12 V	0 A	1.0 A	100 mV	±5%	±1%
+3.3 V	1.0 A	30 A	60 mV	±5%	±1%
+5 Vsb	0.1 A	2 A	60 mV	±5%	±1%

- ♦ +5 V and +3.3 V maximum total output: 50 A
- Certification of power supply
 - ♦ Safety: UL 1950/CSA 22.2 No. 950, TUV IEC 950
 - ♦ EMI: FCC Class B, CISPR22 Class B
- System Monitoring
 - Power LED
 - ♦ Voltage: +3.3 V, +5 V, +12 V, -12 V
 - ♦ LED display: ON while supplied
 - Temperature LED
 - ♦ Temperature setting: 50°C, 60°C, 70°C
 - ♦ LED display
 - ON for normal condition
 - FLASH while exceeds temperature
 - Fan LED
 - ♦ Fan speed monitoring
 - ♦ LED display
 - ON while normal fan speed
 - FLASH while abnormal fan speed
 - Alarm LED
 - ♦ LED display
 - ON while normal condition
 - FLASH if any alarm occurs
 - Alarm Buzzer
 - Beep if any alarm occurs
 - Alarm reset button
 - Reset the alarm monitor system

Cooling

- Fans
 - Front-access hot swappable fan trays
 - Five 31 CFM fan trays at the bottom of the chassis
 - Fan speed: 2900 ± 300 RPM
 - Power: 12 V_{DC} @ 0.17 A each fan
 - Noise: 36 dB(A)
 - Air filter: removable from the bottom of the chassis

Physical

- Number of PXI/CompactPCI slots: 18 (1 system slot, 17 peripherals)
- Number of controller expansion slots: 3 (left of controller slot)
- Dimensions: 445 mm x 482.6 mm x 177.8 mm (L x W x H, w/o handle)
- Weight: 19 kg

Operating Environment

- Ambient temperature range

Model	Temperature
PXIS-2700	0 to 45°C

- Relative humidity : 10 to 90%, noncondensing

Storage Environment temperature

- Ambient temperature range

Model	Temperature
PXIS-2700	-20 to 70°C

- Relative humidity: 5 to 95%, noncondensing

Backplane

- Backplane bare-board material: UL 94V-0 rated
- Backplane connectors: Conforms to IEC-917 and IEC 1076-4-101, UL 94V-0 rated
- PXI peripheral slots with star trigger signals: from the 3rd slot to the 15th slot
- PXI trigger bus segments: 3 (slot 1-6, slot 7-12, slot 13-18)
- PXI local bus: All
- Number of PXI-to-PXI bridges: 2

Shock and Vibration

- Shock : 15 G_{peak-to-peak}, 11 ms duration, non-operation
- Random Vibration
 - Operating: 5 to 500 Hz, 0.5 G_{RMS}, each axis
 - Nonoperating: 5 to 500 Hz, 1.88 G_{RMS}, each axis

Safety and EMC/EMI Compliance

- EMC/EMI: CE, FCC Class A
- Safety: CE/LVD (EN60950)

Ordering Information

- **PXIS-2700**
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