PXIS-2680P
8-Slot 3U Integrated Portable PXI Chassis with 300 W + 300 W AC Power Supply

Features
- Design for portable instrument applications
- Accepts both 3U PXI and CompactPCI modules
- PXI Specifications Rev. 2.2 compliant
- Provides PXI trigger bus, 10 MHz reference clock, star trigger and PXI local bus
- One system slot and 7 PXI/CompactPCI peripheral slots
- High brightness 15" TFT LCD display, 1024 x 768 resolution
- Multiple input devices including 108-key keyboard, touch pad and touch panel
- One built-in slim-type DVD combo drive
- Dual hot swappable 300 W ATX type mini-redundant power supplies

Introduction
ADLINK PXIS-2680P is a highly integrated and fully mobile 3U PXI instrument chassis offering 8-slot capacity for modules. Defined as the next generation solution for rugged portables, the PXIS-2680P has many flexible and powerful characteristics. It features one system slot and seven PXI/CompactPCI peripheral slots. The PXIS-2680P provides multiple input devices, like an integrated keyboard, a touch pad, as well as the touch panel LCD. This integrated PXI portable chassis also implements complete PXI functionalities, including PXI trigger bus, star trigger, PXI local bus, and a 10MHz reference clock. Users could achieve synchronization between modules through the design of the PXIS-2680P.

The PXIS-2680P combines a 15" SVGA LCD touch screen. No additional LCD, touch panel, or keyboard wiring is required when using either the ADLINK PXD-3710/3710F or the PXI-3800 system controller as all necessary wiring has been integrated into the design of the PXIS-2680P. The build-in DVD combo drive is suitable for a high speed recording or backup of valuable information. A pair of 300 W + 300 W redundant power modules are equipped with the chassis, which make the PXIS-2680P ideal for critical applications. PXIS-2680P features two fans for cooling purpose, and they provides a air flow up to 79 CFM.

Users could develop the test & measurement applications either on standard PXI systems or directly on the PXIS-2680P. Combining all the advanced designs, the PXIS-2680P is capable of a wide range of applications which need an integrated portable chassis, such as power industry applications, military applications, and communication applications.

Notice:
This PXI chassis implements rear I/O. PXI chassis with rear I/O are designed to provide internal or external chassis I/O using a rear transition module that matches the PXI controller.
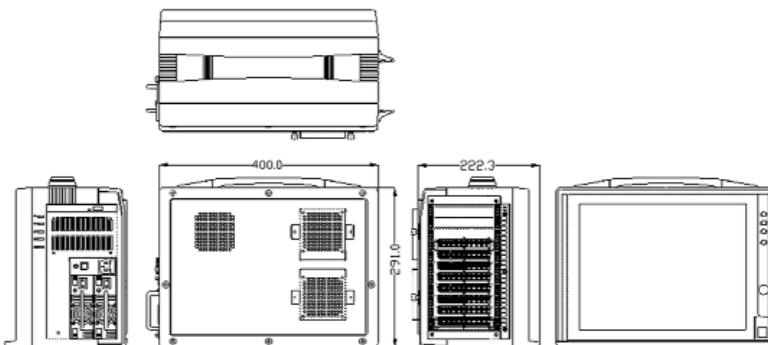
Warning:
If this PXI chassis is used with a controller that does not match the rear transition module, the rear I/O functionality may not operate and may cause damage to the PXI controller or the rear transition module.

DVD Combo Drive

Hot-Swappable Redundant Power Supply

Specifications

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

Electrical

- AC Power Supply
  - Dual 300 W mini redundant, hot-swappable power supply, current sharing for all voltage
  - Input voltage: 115 to 230V$_{AC}$ auto selectable
  - Input frequency: 47 to 63 Hz ±5%
  - Output

VDC	Minimum	Maximum
+5 V	3.0 A	30.0 A
+12 V	2.0 A	15.0 A
+3.3 V	0.3 A	24.0 A
-12 V	0.1 A	0.8 A
-5 V	0.1 A	0.5 A
+5 Vsb	0.1 A	2.0 A

Note: The combined total power from +5 V and +3.3 Vshould not exceed 150 W. The combined total power from +5 V, +3.3 V, and +12 V shall not exceed 275 W. -5 V and +5 Vsb are not used in system.

LCD Panel

- 15" TFT, 1024 x 768 resolution
- 250 nits, contrast 350:1, long live 50,000 hrs backlight at 25 ˚C

Input Devices

- Keyboard: Mechanical type keyboard in 108 keys with touch pad
- Five keyboard types: Chinese, France, Germany, Russian, USA
- Touch screen: 15" Resistive type, connected to COM2 RS-232 interface, MTBF 100,000 hrs at 25 ˚C

Drive Bay

- One slim type drive bay with Combo drive 8X CD-R/RW: 8x DVD-ROM, 24x CD-ROM

Cooling

- Two 8 cm, 12 V$_{DC}$ ball bearing fans,41 CFM air flow/each

Physical

- Number of PXI/CompactPCI slots: 8 (1 system slot, 7 peripherals)
- Number of controller expansion slots: 3 left of controller slot
- Dimensions:
  400 mm x 291 mm x 223.3 mm (W x H x D, without fan frame)
- Weight:
  12 kg (without system controller and modules)

Operating Environment

- Ambient temperature range : 0 to 50 ˚C
- Relative humidity: 20 to 90% @ 40˚C noncondensing

Storage Environment Temperature

- Ambient temperature range : -20 to 70 ˚C
- Relative 10 to 95% @ 40˚C noncondensing

Backplane

- Backplane bare-board material: UL 94V-0 rated
- Peripheral slots with star signals: from 3rd to the 8th slot.
- PXI trigger bus: all
- PXI local bus: all
- 1 system slot on the left-hand side
- 7 peripheral slots and accept modules compliant with both PXI and CompactPCI specifications

Shock and Vibration

- Shock : 10 G$_{peak-to-peak}$, 11 ms duration, non-operation
- Random Vibration
  - Operating: 5 to 500 Hz,1.0 G$_{RMS}$, each axis
  - Nonoperating: 5 to 500Hz, 2.0 G$_{RMS}$, each axis

Safety and EMC/EMI Compliance

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

Recommended System Controller

- PXI-3800
- PXD-3710
- PXD-3710F

Ordering Information

- **PXIS-2680P**
  8-Slot 3U PXI Integrated Portable Instrument Chassis with 300 W + 300 W AC Power Supply

- **PXIS-2680P Carry Bag**
  Carry Bag with handle for PXIS-2680P, 460 mm x 350mm x 260mm (WxHxD), 5kg

1 Software Solutions

2 PXI/ CompactPCI Platforms

3 PXI-Based Instruments

4 PXI/ CompactPCI Modules

5 PCI DAQ Cards

6 PCI DIO Cards

7 PC/ 104-Plus Products

8 ISA DAS/ DIO Cards

9 Wiring Termination Boards

10 Motion Vision & COM

11 Remote I/O Modules

12 Industrial Computers