

▶ Seamless Migration to PXI



As a sponsor member of the PXI System Alliance, ADLINK offers a wide selection of PXI chassis, PXI controllers, digitizers, data acquisition modules, switches, bus expansion products (PCI/PCIe-PXI & PXI-PXI), and as GPIB connectivity - with more products on the horizon to provide open hardware and software support for our customers.

Overview

PXI, PCI eXtension for Instrumentation, is a modular instrumentation platform designed exclusively for measurement and automation applications. A single versatile PXI system supports multiple PXI and CompactPCI modules from various vendors. Communication among the modules uses familiar PC-based technologies such as the 132 MB/s PCI bus, allowing high-performance communication that leverages widely available software. PXI also integrates timing and synchronization into the system, so you can pass signals among instruments in high performance and accuracy, without additional wiring.

Based on CompactPCI

The PXI specification, now at revision 2.2 that leverages the CompactPCI specification, defines a rugged Eurocard form factor from PCI. It provides superior mechanical integrity with easy installation and removal of hardware components. PXI products offer greater and more carefully defined levels of environmental performance required by the vibration, shock, temperature, and humidity extremes of industrial and military environments. PXI adds mandatory environmental testing, EMC testing, and active cooling to the CompactPCI mechanical specification to ease system integration and ensure multi-vendor interoperability. The most compelling benefit for PXI, however, is the dominance of PCI-based technologies in the desktop PC marketplace which is served by over 800 suppliers. The result is widespread availability of PCI-based silicon, firmware, drivers, operating systems, and software applications; all of which can be applied cost-effectively in PXI-based systems.

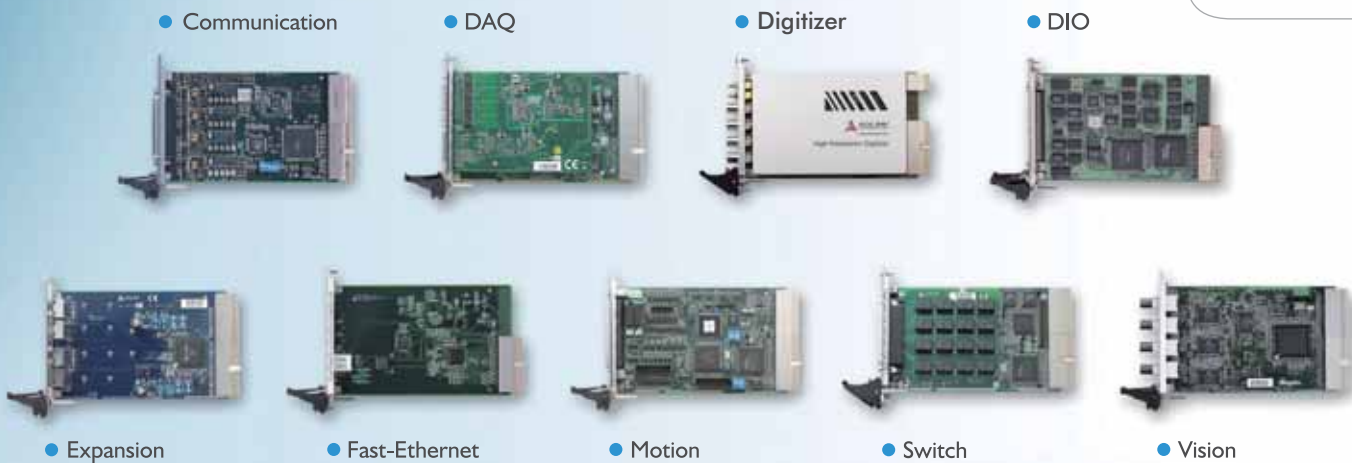
Compact Integration

With PXI modular instrumentation, you can easily integrate the functionalities that you need into a single system. Instrumentation, data acquisition, video capture, motion control, and bus interface modules are only some of the many PXI devices available. Additionally, integration with other system architectures, including GPIB, Serial, and Ethernet systems is easy with PXI. Since PXI is based on standard PC technologies such as Windows and the PCI bus, integrating a PXI system to these systems is typically not different from integrating a PC to these systems. Use these system architectures when you wish to preserve a past investment in hardware, or need functionality not available in PXI.

Trigger and Synchronization

The PXI bus combines the high-speed PCI bus with timing and synchronization designed exclusively for measurement and automation. The PXI trigger bus consists of 8 shared trigger bus lines, a low-skew star trigger line, and a common 10 MHz system reference clock. Using these synchronization features, you can easily deliver trigger, clock, and other electrical signals among PXI modules to have the accurate, high-performance measurement that you need.

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14	Accessories



ADLINK PXI/CompactPCI Product Offering

3U/6U Chassis	3U/6U Controller
PCI/PCIe/EC-to-PXI Expansion Kit	Ethernet/SCSI/VGA/LCD/ATA-100/IEEE-1394 Interface Module
High-Speed Digitizer	Multi-Function DAQ Module
Switch Module	Digital I/O Module
Serial Communication Module	Motion Control Module
Video Capture Module	

ADLINK PXI Products Benefit

Reliability and Compatibility

PXI is an ideal deployment platform for measurement and automated test systems. Multiple vendors provide a wide array of instrumentation modules, with over 1,500 PXI products currently available. ADLINK sets the compatibility tests as a critical procedure of verifying our products, and we invest in PXI products of other vendors for a complete compatibility test. ADLINK has also passed a 6 sigma assessment, and received ISO-9001 as well as ISO-14001 certification to guarantee highly reliable PXI products.

Large Selection of PXI Instruments and Modules

ADLINK TECHNOLOGY INC. provides instrumentation modules for data acquisition, digitizers, digital I/O, and switch multiplexers. In addition to these measurement modules, motion control and vision modules are also available from ADLINK for tight integration of machine automation into PXI chassis. Combining partners' expertise in Multimeters, RF analyzers and waveform generator, and other modular instruments, ADLINK satisfies the requirements for various applications. ADLINK employs a strategy that makes test and system deployment easier with standard, low-cost, off-the-shelf technologies.

Cost Effectiveness

With the advantages of PC industry innovation and manufacturing, and by natively leveraging PC technologies of PXI, ADLINK adopts the latest technology and improves cost reduction. With a rich history in measurement and automation, as well as in hardware design and Windows/Linux specialties, ADLINK provides a wide range of PXI products from PXI platforms and high-performance PXI modules to software development tools for tight integration at reasonable prices.



Wide Range of Applications

The merits of PXI mechanical, electrical, and software specifications make PXI ideal for a wide range of applications:











Machine Automation	High-Volume Electronic Manufacturing Testing
IC Testing	In-Vehicle Control & Testing
High-Speed/High-Channel-Count Measurement	Radar/Lidar Systems
Non-Destructive Test	Digital Image Capture
Distributed Temperature Sensing	Data Recording

Selection Guide

PXI Controller

	Model Name	Form Factor	Processor	Memory	HDD	Slot Occupied	Rear I/O	Page
	PXI-3950	3U	Core™ 2 Duo T7500 2.2 GHz	4 GB DDR2	SATA 160 GB/7200 RPM	3	Yes	3-5
	PXI-3950/M2G			2 GB DDR2				3-5
	PXI-3920/M1.5G		Pentium® M 760 2.0 GHz	1.5 GB DDR2				3-5
	PXI-3920		Pentium® M 760 2.0 GHz	512 MB DDR2 (soldered)				3-5
	PXI-3910		Celeron® M 373 1.0 GHz					3-5

PXI Chassis

	Model Name	Type	Accepted Modules	Slots for Peripheral	Power Supply	LCD Panel	System Monitoring	Page
	PXIS-2506	Bench-top/ Wall-mount	3U PXI/CompactPCI	5 slots	250 W cPCI Power Module		Yes	3-14
	PXIS-2508	Bench-top/ Rack-mount		7 slots	350 W ATX	8.4" Touch panel 800 x 600		3-9
	PXIS-2558T							3-9
	PXIS-2630							400 W ATX
	PXIS-2670	Bench-top/ Rack-mount		13 slots	500 W 2U ATX			3-12
	PXIS-2700		17 slots	Dual 460 W Redundant		3-11		
	PXIS-2719		18 slots	700 W ATX		3-7		
	PXIS-3320		6U PXI/CompactPCI	14 slots	500 W cPCI Power Module		3-4	
	PXIS-2690P	Integrated Portable	3U PXI/CompactPCI	13 slots	500 W 2U ATX	15" Touch panel 1024 x 768		3-15
	PXIS-2680P			7 slots	Dual 300 W mini-Redundant			3-16

PXIS-3320

15-Slot 6U PXI/CompactPCI Chassis with 500 W Hot-Swappable Power Supply



Features

- Supports 6U PXI and CompactPCI modules
- PXI specifications Rev. 2.2 compliant
- Provides one system slot and 14 PXI/CompactPCI peripheral slots
- Dual hot-swappable 250 W CompactPCI power supply with universal AC input
- Filtered, forced air-cooling architecture
- Magnetic circuit breaker protection for AC input
- Temperature, voltage, and fan monitoring LEDs
- Optional 1000 W power supply

Specifications

Power Supply

Form factor: PICMG 2.11 compliant CompactPCI power module
 AC input: 100 to 240 V_{AC}, 50 Hz to 60 Hz
 DC output for each power module: 250 W

V _{DC}	Minimum	Typical	Maximum
+5 V	2.0 A	25.0 A	33.0 A
+12 V	0.0 A	5.0 A	5.5 A
+3.3 V	0.0 A	18.0 A	33.0 A
-12 V	0.0 A	0.5 A	1.0 A

Cooling

Fans for intake: Five 80 mm x 80 mm x 25 mm, dual ball-bearing fans, 48.2 CFM/each
 Fans for ventilation: Five 80 mm x 80 mm x 25 mm, dual ball-bearing fans, 48.2 CFM/each

Physical

Number of PXI Slots: 15 (1 system slot + 14 peripheral slots)
 Dimensions: 483 mm x 398 mm x 295 mm
 (W x H x D, without handles)
 Weight: 23 kg (50.6 lbs)

Operating Environment

Ambient temperature: 0°C to 45°C
 Relative humidity: 10% to 90%, non-condensing

Introduction

The ADLINK PXIS-3320 is a 19" 6U PXI chassis comes with one system slot and 14 peripheral slots that supports both PXI and CompactPCI modules. Compliant with the PXI specifications Rev. 2.2, the PXIS-3320 highlights a star trigger, PXI trigger bus, 10 MHz reference clock, and PXI local bus to facilitate synchronization among multiple peripheral modules. The PXIS-3320 series is equipped with two hot-swappable, industrial-grade 250 W power supply units and LEDs that tell the status of voltage, temperature, and system fans. In addition, two fan decks of PXIS-3320, which generate total 482 CFM air flow, provide the ultimate thermal stability. For applications requiring multiple, multi-standard modules, and robust design, insist on ADLINK PXIS-3320.

Storage Environment

Ambient temperature: -20°C to 70°C
 Relative humidity: 5% to 95%, non-condensing

Shock and Vibration

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

Emissions Compliance

EN 55022
 FCC Class A

CE Compliance

Immunity: EN 55024

Recommended System Controller

	PXIS-3320
cPCI-6965	√

Ordering Information

PXIS-3320

15-Slot 6U PXI/CompactPCI Chassis with 500 W Hot-swappable Power Supply

PXIS-3320/1000W

15-Slot 6U PXI/CompactPCI Chassis with 1000 W Hot-swappable Power Supply



PXIS-3320 Back View



PXIS-3320/1000W

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PXI-3950/3920/3910

Next-generation 3U PXI™ Controllers for Hybrid PXI-based Testing Systems



PXI-3950



PXI-3920



PXI-3910

Introduction

The ADLINK PXI-3900 series of next-generation PXI™ embedded controllers is based on the Intel® Celeron® M, Intel® Pentium® M, or Intel® Core™ 2 Duo and specifically designed for hybrid PXI-based testing systems by providing a rugged and stable operating environment for a variety of test and measurement applications.

Hybrid PXI-based testing systems are typically composed of a PXI platform and diversified stand-alone instruments for complex testing tasks. The PXI-3900 series provides plenty of interfaces, including GPIB, USB, and COM ports, for connecting and controlling instruments. The PXI-3900 series also provides dual Gigabit Ethernet ports—one for a LAN connection and the other for controlling next-generation LXI instruments.

Combining state-of-art Intel® Core™ 2 Duo T7500 2.2 GHz processor, the latest GME965 chipset, and 4 GB of 667 MHz DDR2 memory, the PXI-3950 provides two computing engines on a single processor that can execute two independent tasks at the same time in a multi-tasking environment. The PXI-3920 and PXI-3910 are meticulously designed to provide maximum robustness. The CPU and memory chips are soldered on the PCB to increase reliability in shock and vibration prone environments. The aluminum-copper composite heat sink helps to disperse heat uniformly to maintain a stable operating temperature.

Combining a variety of instrument control interfaces and reliable mechanical and electronic design, the ADLINK PXI-3900 series is well qualified to meet the needs of your hybrid PXI-based testing systems.

Notice

These PXI™ controllers implement rear I/O PXI™ controllers with rear I/O are designed to operate with a matching rear transition module which provides internal or external chassis I/O.

Warning

If these PXI™ controllers are used with a chassis that contains a rear transition module that does not match the controller, the rear I/O functionality may not operate and may cause damage to the PXI™ controller or the rear transition module.

Features

PXI™ specification Rev. 2.2 Compliant

Scalable computing power

- Intel® Core™ 2 Duo T7500 2.2 GHz processor (PXI-3950)
- Intel® Pentium® M 760 2.0 GHz processor (PXI-3920)
- Intel® Celeron® M 373 1.0 GHz processor (PXI-3910)

On-board DDR2 memory

- Up to 4 GB 667 MHz (PXI-3950)
- 512 MB 400/533 MHz soldered (PXI-3920/3910)

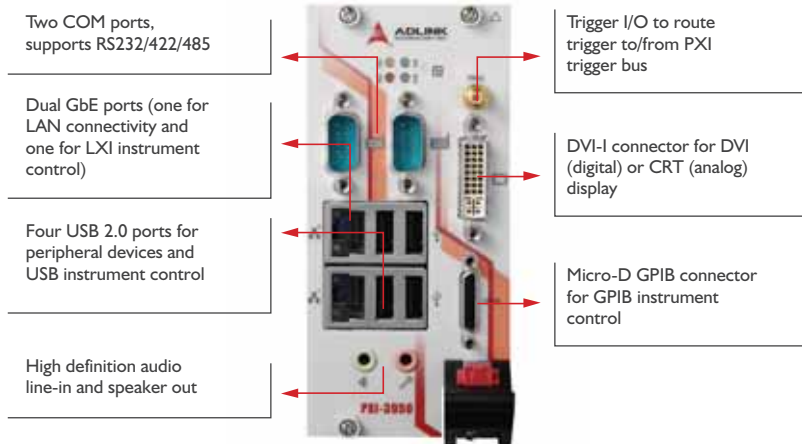
Integrated SATA hard drive

- 160 GB 7200 RPM

CompactFlash® socket for HDD replacement

Integrated I/O

- Dual Gigabit Ethernet ports
 - Four USB 2.0 ports
 - Built-in GPIB (IEEE488) controller
 - Two RS-232/422/485 ports
 - DVI-I video connector
 - High definition audio output and input
 - Trigger I/O for advanced PXI™ trigger functions
- Programmable watchdog timer



PXI-3950 Front Panel

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Specifications

Model Name	PXI-3910	PXI-3920	PXI-3950
Core Features			
CPU	Intel® Celeron® M 373 1.0 GHz	Intel® Pentium® M 760 2.0 GHz	Intel® Core™2 Duo T7500 2.2 GHz
FSB	400 MHz	533 MHz	800 MHz
Chipset	Intel® 915 GME Graphic Memory Control HUB Intel® I/O Controller Hub 6 Mobile (ICH6-M)		Intel® GME965 Graphic Memory Control HUB Intel® I/O Controller Hub 8 Mobile (ICH8-M)
Memory	512 MB on-board soldered memory One DDR2 SO-DIMM socket for memory expansion Supports dual-channel DDR2 SDRAM, 400/533 MHz		4 GB SO-DIMM memory Supports dual-channel DDR2 SDRAM, 667 MHz
Display			
Chipset	Intel® GMA 900 graphic media accelerator		Intel® GMA X3100 graphic media accelerator
DVI	Single channel TMDS via SDVO to DVI controller up to 1600 x 1200 resolution @ 60 Hz		
CRT	Analog CRT route to DVI-I connector on the faceplate up to 1280 x 1024 resolution		
LVDS (For rear I/O only)	Single 18-bit LVDS channel route to rear transition module Supports LCD backlight control		
Interface	DVI-I connector for digital or analog video signal outputs		
I/O Connectivity			
Hard Drive	160 GB SATA hard drive, 7200 RPM		
Ethernet	On board Marvell™ 88E8053 Dual Gigabit Ethernet controllers Two RJ-45 connectors with speed/link/active LED on the faceplate		
USB	4 x USB 2.0 on the faceplate		
GPIB	On-board IEEE488 GPIB controller		
Serial Port	Micro-D 25-pin connector on the faceplate (ACL-IEEE488-MD1 cable required) Two 16C550 UART compatible COM ports on the faceplate		
Audio	Supports RS-232, RS-422 and RS-485, configurable by jumper setting Supports high definition audio input/output Two audio jacks on the faceplate for line-in/mic-in and speaker-out		
Trigger I/O	SMB connector on the faceplate to route an external trigger signal to/from PXI™ trigger bus		
CompactFlash Socket	Type II CF Socket, supporting PIO and DMA modes		
Mechanical and Environmental			
Dimensions	3U PXI™ module 60.5 mm x 128.7 mm x 213.2 mm		
Slot Requirements	1 system slot plus 2 controller expansion slots		
Weight	0.9 kg		
Operating Temp.	0 to 55°C		
Storage Temp.	-20 to 80°C		
Relative Humidity	5 to 95%, non-condensing		
Shock	30 G, half-sine, 11 ms pulse duration		
Vibration	Operating: 5 to 500 Hz, 0.5 GRMS, 3 axes Non-operating: 5 to 500 Hz, 2.46 GRMS, 3 axes		
Emissions Compliance	EN 61326-1 FCC Class A		
CE Compliance	Immunity: EN 61326-1		

Ordering Information

PXI-3950

3U PXI Core™ 2 Duo T7500 2.2 GHz System Controller with 4 GB Memory & 160 GB HDD

PXI-3950/M2G

3U PXI Core™ 2 Duo T7500 2.2 GHz System Controller with 2 GB Memory & 160 GB HDD

PXI-3920

3U PXI Pentium® M 760 2.0 GHz System Controller with 512 MB Memory & 160 GB HDD

PXI-3920/M1.5G

3U PXI Pentium® M 760 2.0 GHz System Controller with 1.5 GB Memory & 160 GB HDD

PXI-3910

3U PXI Celeron® M 373 1.0 GHz System Controller with 512 MB memory & 160 GB HDD

ACL-IEEE488-MD1

25-pin Micro-D to GPIB Cable, 1 Meter Length

Cable Accessory



PXIS-2719

3U 19-Slot Smart PXI Chassis with 700 W AC Power Supply



Introduction

The ADLINK PXIS-2719 is a 3U PXI chassis with a series of advanced features:

- An innovative cooling mechanism to deliver efficient and uniform heat dissipation
- Superior stability within an extended temperature range
- Intelligent chassis management that dynamically monitors and manages fan speed, system voltages, and internal temperature
- Remote management via standard RS-232 monitoring port

The PXIS-2719 is compliant with PXI and CompactPCI specifications and provides one system slot and eighteen peripheral slots. It is designed to meet or exceed application requirements by providing a large slot capacity, extended operating temperature range, and excellent heat dissipation in a lightweight and robust design.

The PXIS-2719 includes an Industrial-grade 700 W AC power supply to provide ample reliable power to the entire system. The PXIS-2719 is designed with an external 10 MHz reference clock input, front panel LED indicators, and easy-access PXI/CompactPCI slots with card guides for convenient installation and use. With innovative features and robust design, the PXIS-2719 is your best choices of PXI platform for all your test and measurement requirements.

Features

PXI specification Rev. 2.2 compliant

Rack-mountable 19-slot PXI chassis with one system slot and eighteen PXI/CompactPCI peripheral slots

Advanced forced-cooling mechanism for efficient and uniform heat dissipation

External 10 MHz reference clock input via BNC connector
0°C to 55°C extended operating temperature range

Intelligent chassis monitoring/control

- Automatic fan speed control
- Chassis status monitoring and exporting
- Remote chassis power on/off control

700 W industrial-grade AC power supply
Power, temperature and fan monitoring LEDs

Highlights

Innovative Cooling Mechanism

The ADLINK PXIS-2719 features an innovative design for heat dissipation. The cooling fans are placed in the rear section of the chassis where cool air is pulled in through apertures on the bottom and exhausted through the back. This new design gives uniform air flow for each PXI slot and exceptional cooling capability. When this chassis is installed in a rack, the new cooling design minimize the drawing in of hot air from the rear area, where all other devices exhaust, while maintaining a steady temperature inside the chassis.



Intelligent Chassis Management

The PXIS-2719 has a built-in control board that monitors and manages chassis status, including internal temperature, fan speed, and voltages. Using the RS-232 monitoring port, the chassis status information can be exported to another computer for remote management. The control board can also accept commands from the remote system to allow remote power on/off and fan speed control of the PXIS-2719 chassis.



Remote Monitoring Port

Flexible Rack-mount Design

ADLINK also provides an optional rack-mount kit to allow flexible installation of the PXIS-2719 in a rack. By adjusting the position of rack-mount bracket, the PXIS-2719 can be recessed in a cabinet rack up to 10 centimeters to accommodate external mechanical parts on the front side, such as complicated connectors/wires and mass interconnect modules.



Specifications

Power Supply

AC Input

- Input voltage range: 90 to 264 VAC full range
- Input voltage frequency: 47 to 63 Hz
- Input current rating: 12 A for 115 VAC
6 A for 230 VAC

DC Output

- Total DC power output 700 W

VDC	Minimum	Maximum	Load Regulation	Line Regulation	Maximum Ripple & Noise
+5 V	2.5 A	50.0 A	±4%	±1%	50 mV
+12 V	1.0 A	32.0 A	±5%	±1%	100 mV
+3.3 V	1.0 A	45.0 A	±5%	±1%	50 mV
-12 V*	0 A	4.5 A	±5%	±1%	100 mV

* -12 V is provided by an internal +12 Vdc to -12 Vdc conversion board

Cooling

Fans: 4 sets of 68 CFM fans

Per-slot cooling capacity: 25 W
(verified by 55°C chamber test)

Acoustic Emissions

Sound Pressure Level I (dBA)

(measured at operator position)

Minimal fan speed	49.7 dB
Maximal fan speed	57.7 dB

Tested in Accordance with ISO 7779:1999/Amd.1:2003(E)

Sound Power (dBA)

Minimal fan speed	59.8 dB
Maximal fan speed	69.1 dB

Tested in Accordance with ISO 7779:1999/Amd.1:2003(E)

Physical

Number of PXI slots: 19

(1 system slot + 18 peripheral slots)

Dimensions: 444 mm (W) x 178 mm (H) x 455 mm (D)

Weight: 13.4 kg (29.5 lbs)

Operating Environment

Ambient temperature: 0°C to 55°C

Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature: -20°C to 70°C

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, 0.31 GRMS, 3 axes
- Non-operating: 5 to 500 Hz, 2.46 GRMS, 3 axes

Emissions Compliance

EN 61326-1

FCC Class A

CE Compliance

Safety: EN 61010-1

Immunity: EN 61326-1

Recommended System Controller

PXI-3900 series	PXIS-2719
	√

Ordering Information

PXIS-2719

3U 19-Slot Smart PXI Chassis with 700 W AC Power Supply

PXIS-2719 Rack-mount Kit

Flexible Rack-mount Kit for PXIS-2719

PXIS-2508/2558T

3U 8-Slot Smart PXI Chassis with 350 W AC Power Supply



Introduction

The ADLINK PXIS-2508 and PXIS-2558T are new-generation PXI chassis equipped with advanced features and functionalities. Compliant with PXI and CompactPCI specifications, these chassis offer one system slot and seven peripheral slots for more versatile test and measurement computing. Set in a sleek and lightweight chassis for superior portability, the PXIS-2508 and PXIS-2558T also boast of wider operating temperature range, lower operating noise, and robust system build.

Both PXIS-2508 and PXIS-2558T are equipped with an intelligent control board that dynamically monitors and manages the chassis status including the fan speed, system voltages, and internal temperature. A standard RS-232 monitoring port makes remote management possible as chassis status are exported to and viewed from a remote computer using serial communications.

The PXIS-2558T model includes an integrated 8.4" LCD that supports 800 x 600 resolution and touch panel capability. The integrated display allows you to carry the PXI-based testing equipment anytime and anywhere.

Equipped with an industrial grade 350 W AC power supply, the PXIS-2508 and PXIS-2558T also come with front panel LED indicators, and easy-access PXI slots with card guides for convenient installation and deployment. With innovative features and design, PXIS-2508 and PXIS-2558T are your best choices of PXI platform for test and measurement applications.

Notice:

The PXIS-2558T 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 the PXIS-2558T 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.

Features

Compliant with PXI Specification Rev. 2.2

Compact 8-slot PXI chassis with one system slot and seven PXI/CompactPCI peripheral slots

0°C to 55°C extended operating temperature range

41.6 dBA silent operation

Intelligent chassis management

- Automatic fan speed control
- Chassis status monitoring and exporting
- Remote chassis power on/off control

5.9 kg lightweight aluminum-metal construction

8.4" built-in LCD with touch panel function (PXIS-2558T only)

Two USB ports on front panel (PXIS-2558T only)

350 W industrial-grade AC power supply

Power, temperature, and fan monitoring LEDs



PXIS-2508 Front View

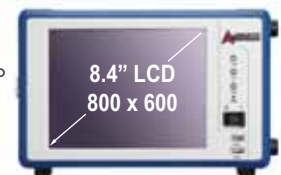


PXIS-2558T Back View

Highlights

Integrated 8.4" LCD with touch panel (PXIS-2558T only)

The PXIS-2558T has a built-in 8.4" LCD display with touch panel functionality and supports an 800 x 600 resolution. The integrated display transforms the chassis into a stand-alone system that is suitable for bench-top and portable applications.



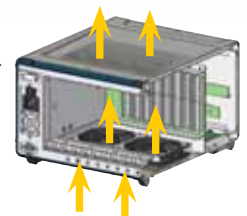
Intelligent Chassis Management

The PXIS-2508 and PXIS-2558T has a built-in control board that monitors and manages the chassis status, including the internal temperature, fan speed, and DC voltages. Using the RS-232 monitoring port, these chassis statuses may be exported to another computer for remote monitoring. The control board also allows remote system power on/off and fan speed control as it is capable of accepting commands from the remote computer.



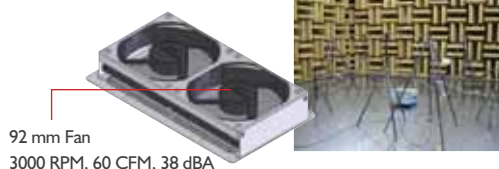
Extended Operating Temperature Range

With two 60 CFM fans and efficient direct convection design, the PXIS-2508 and PXIS-2558T can effectively operate within an extended temperature range of 0°C to 55°C. Chamber test shows that the chassis maintained thermal stability even when subjected to an extremely heavy load and installed at high ambient temperature.



Silent Operation

Because chassis fans are major sources of operating noise, the PXIS-2508/2558T fan speed is automatically controlled according to the current internal temperature. This enables the chassis to operate at an ultra-silent 41.6 dBA at room temperature.



Flexible Rack-mount Design

ADLINK also provides an optional rack-mount kit to allow flexible installation of the PXIS-2508/2558T in a rack. By adjusting the position of chassis on the rack-mount kit, the PXIS-2508/2558T can be recessed in a cabinet rack up to 10 centimeters to accommodate external mechanical parts on the front side, such as complicated connectors/wires and mass interconnect modules.



Specifications

Power Supply

AC Input

- Input voltage range: 100 to 240 VAC
- Input voltage frequency: 50 to 60 Hz
- Input current rating: 8 A/115 VAC or 4 A/230 VAC

DC Output

- Total DC power output 350 W

VDC	Minimum	Maximum	Load Regulation	Maximum Ripple & Noise
+5 V	3.0 A	35.0 A	±5%	50 mV
+12 V	2.0 A	18.0 A	±5%	120 mV
+3.3 V	1.0 A	20.0 A	±5%	50 mV
-12 V	0.1 A	2.0 A	±5%	120 mV

Integrated Devices (PXIS-2558T only)

Display: 8.4" TFT LCD, 800 x 600 resolution

Input device: Built-in touch panel

Cooling

Fans: 2 x 60 CFM fans with filters

Per-slot cooling capacity: 25 W
(verified by 55°C chamber test)

Acoustic Emission

Sound Pressure Level (dBA)

Minimal fan speed	41.6 dB
Maximal fan speed	47.3 dB

The combined output power of +5 V and +3.3 V cannot exceed 35 A.

Sound Power (dBA)

Minimal fan speed	51.9 dB
Maximal fan speed	55.5 dB

Tested in accordance with ISO 7779:1999/Amd. 1:2003(E)

Physical

Number of PXI slots: 8

(1 system slot + 7 peripheral slots)

Dimensions:

- 280 mm x 177 mm x 303 mm (W x H x D)

Weight:

- PXIS-2508: 5.9 kg (13 lbs)
- PXIS-2558T: 6.4 kg (14 lbs)

Operating Environment

Ambient temperature: 0°C to 55°C

Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature:

- PXIS-2508: -20°C to 70°C
- PXIS-2558T: 0°C to 70°C

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, 0.5 GRMS, 3 axes
- Non-operating: 5 to 500 Hz, 2.46 GRMS, 3 axes

Emissions Compliance

EN 61326-1

FCC Class A

CE Compliance

Safety: EN 61010-1

Immunity: EN 61326-1

Recommended System Controller

	PXIS-2508	PXIS-2558T-B
PXI-3900 series	√	√

Ordering Information

PXIS-2508

3U 8-Slot Smart PXI Chassis with 350 W AC Power Supply

PXIS-2558T-B

3U 8-Slot Smart PXI Chassis with 8.4" LCD Touch Panel for PXI-3900 Series Controllers

PXIS-25x8 Rack-mount kit

Rack-mount Kit for PXIS-2508/2558T

PXIS-2700

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



Introduction

The PXIS-2700 is a high-capacity PXI chassis that provides one system and 17 peripheral slots in a standard 19" 4U dimension and supports both PXI and CompactPCI modules. Compliant with PXI specification Rev. 2.2, the PXIS-2700 features a 10 MHz reference clock, start trigger, local bus, and a trigger bus divided into three segments by two PCI bridges.

Promoting operating efficiency, the PXIS-2700 is loaded with a redundant 460 W AC power subsystem to ensure reliable, round-the-clock power supply, and hot-swappable fans which can be removed and replaced even when the system is running. The redundant and hot-swappable solutions considerably reduce MTTR (Mean-Time-To-Repair) and ensure continuous operation. The PXIS-2700 also effectively monitors the system power, temperature, and fans via a chassis-integrated alarm module. The corresponding LED lights up and the buzzer alarms when the system detects a defective power supply or fan module.



Hot-swappable fans for easy replacement



460 W + 460 W redundant AC power supply

Features

- Supports 3U PXI and CompactPCI modules
- PXI Specifications Rev. 2.2 compliant
- Equipped with one system slot and 17 PXI/CompactPCI peripheral slots
- Hot-swappable 460 W + 460 W ATX redundant power supply
- Filtered, forced-air cooling architecture
- Temperature, voltage, and fan monitoring LEDs
- Hot-swappable fans design for easy replacement

Specifications

Power Supply

Form factor: 460 W + 460 W redundant AC power supply
 AC input: 100 to 240 V_{AC}, 50 Hz to 60 Hz
 DC output: 460 W

V _{DC}	Minimum	Maximum
+5 V	5.0 A	40.0 A
+12 V	2.5 A	32.0 A
+3.3 V	1.0 A	30.0 A
-12 V	0.0 A	1.0 A

Cooling

Fans: Five 80 mm x 80 mm x 15 mm ball-bearing fans in hot-swappable fan trays, 31 CFM/each

Physical

Number of PXI Slots: 18 (1 system slot + 17 peripheral slots)
 Dimensions: 483 mm x 178 mm x 445 mm (W x H x D) without handles
 Weight: 19 kg (41.8 lbs)

Operating Environment

Ambient temperature: 0°C to 45°C
 Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature: -20°C to 70°C
 Relative humidity: 5% to 95%, non-condensing

Shock and Vibration

Shock: 15 G_{peak-to-peak}, 11 ms duration
 Random Vibration

- Operating: 5 Hz to 500 Hz, 0.5 GRMS, each axis
- Non-operating: 5 Hz to 500 Hz, 1.88 GRMS, each axis

Emissions Compliance

EN 55022
 FCC Class A

CE Compliance

Safety: EN 60950-1
 Immunity: EN 55024

Recommended System Controller

	PXIS-2700
PXI-3900 series	√

Ordering Information

PXIS-2700

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

PXIS Spare Fan

PXI Chassis Spare Fan for PXIS-2700 & PXIS-2600 Series

PXIS-2670

14-Slot 3U PXI/CompactPCI Chassis with 500 W AC Power Supply



Introduction

The ADLINK PXIS-2670 is a compact 14-slot PXI chassis that provides one system and 13 peripheral slots in a space-saving 483 mm x 178 mm x 258 mm dimension. Supporting both 3U PXI and CompactPCI modules, the PXIS-2670 chassis is compliant with PXI specification Rev. 2.2 and highlights PXI features including a 10 MHz reference clock, start trigger, local bus, and a trigger bus divided into two segments by a single PCI bridge.

Reliable power is supplied to the PXIS-2670 chassis by an industrial-grade 500 W AC power supply. The status of system power supplies, temperature, and fan operations are monitored by a chassis-integrated alarm module. When a failure is detected, the corresponding LED lights up and the buzzer sounds an alarm.

Designed with hot-swappable fan trays, any defective fan may be removed and replaced from the front panel even when the system is running, ensuring uninterrupted operation and reduced MTTR (Mean-Time-To-Repair).



Hot-swappable fans for easy replacement



Voltage, temperature, and fan monitoring LEDs

Features

- Most compact 14-slot PXI chassis to date
- Supports both 3U PXI and CompactPCI modules
- PXI Specifications Rev. 2.2 compliant
- Equipped with one system slot and 13 PXI/CompactPCI peripheral slots
- Industrial-grade 500 W ATX power supply
- Hot-swappable fans design for easy replacement
- Filtered, forced-air cooling architecture
- Temperature, voltage, and fan monitoring LEDs

Specifications

Power Supply

Form factor: 500 W 2U ATX AC power supply
AC input: 100 to 240 V_{ac}, 50 Hz to 60 Hz
DC output: 500 W

Vdc	Minimum	Maximum
+5 V	1.0 A	50.0 A
+12 V	0.0 A	35.0 A
+3.3 V	0.0 A	28.0 A
-12 V	0.0 A	0.8 A

Cooling

Fans: Five 80 mm x 80 mm x 15 mm ball-bearing fans in hot-swappable fan trays, 31 CFM/each

Physical

Number of PXI Slots: 14 (1 system slot + 13 peripheral slots)
Dimensions: 483 mm x 178 mm x 258 mm (W x H x D) without handles
Weight: 14 kg (30.8 lbs)

Operating Environment

Ambient temperature: 0°C to 50°C
Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature: -20°C to 70°C
Relative humidity: 5% to 95%, non-condensing

Shock and Vibration

Shock: 15 G_{peak-to-peak}, 11 ms duration
Random Vibration

- Operating: 5 Hz to 500 Hz, 0.5 GRMS, each axis
- Non-operating: 5 Hz to 500 Hz, 1.88 GRMS, each axis

Emissions Compliance

EN 55022
FCC Class A

CE Compliance

Safety: EN 60950-1
Immunity: EN 55024

Recommended System Controller

	PXIS-2670
PXI-3900 series	√

Ordering Information

PXIS-2670

14-Slot 3U PXI/CompactPCI Chassis with 500 W AC Power Supply

PXIS Spare Fan

PXI Chassis Spare Fan for PXIS-2700 & PXIS-2600 Series

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Accessories

PXIS-2630

8-Slot 3U PXI/CompactPCI Chassis with 400 W AC Power Supply



Introduction

Prepared for rugged mobility, the ADLINK PXIS-2630 series is a 3U PXI chassis with one system slot and seven peripheral slots. The chassis is compliant with PXI and CompactPCI specifications and accepts both PXI and CompactPCI modules. The PXIS-2630 integrates all PXI features, including a 10 MHz reference clock, start trigger, local bus, and trigger bus.

Reliable power is supplied to the PXIS-2630 chassis by an industrial-grade 400 W AC power supply. The status of system power supplies, temperature, and fan operations are monitored by a chassis-integrated alarm module. When a failure is detected, the corresponding LED lights up and the buzzer sounds an alarm. Designed with hot-swappable fan trays, any defective fan may be removed and replaced from the front panel even when the system is running, ensuring uninterrupted operation and reduced MTTR (Mean-Time-To-Repair). The PXIS-2630 chassis is the best alternative for all your PXI applications.

Features

- Supports both 3U PXI and CompactPCI modules
- PXI Specifications Rev. 2.2 compliant
- Equipped with one system slot and seven PXI/CompactPCI peripheral slots
- Industrial-grade 400 W ATX power supply
- Hot-swappable fans design for easy replacement
- Filtered, forced air-cooling architecture
- Temperature, voltage, and fan monitoring LEDs



Hot-swappable fans for easy replacement

Specifications

Power Supply

Form factor: 400 W ATX AC power supply
AC input: 100 to 240 V_{AC}, 50 Hz to 60 Hz
DC output: 400 W

V _{DC}	Minimum	Maximum
+5 V	2.5 A	35.0 A
+12 V	1.0 A	20.0 A
+3.3 V	1.0 A	28.0 A
-12 V	0.0 A	1.0 A

Cooling

Fans: Five 80 mm x 80 mm x 15 mm ball-bearing fans in hot-swappable fan trays, 36 CFM/each

Physical

Number of PXI Slots: 8 (1 system slot + 7 peripheral slots)
Dimensions: 483 mm x 178 mm x 258 mm
(W x H x D) without handles
Weight:
• 11 kg (24.2 lbs)

Operating Environment

Ambient temperature:
• 0°C to 50°C
Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature:
• -20°C to 70°C
Relative humidity: 5% to 95%, non-condensing

Shock and Vibration

Shock: 15 G_{peak-to-peak}, 11 ms duration
Random Vibration
• Operating: 5 Hz to 500 Hz, 0.5 GR_{RMS}, each axis
• Non-operating: 5 Hz to 500 Hz, 1.88 GR_{RMS}, each axis

Emissions Compliance

EN 55022
FCC Class A

CE Compliance

Safety: EN 60950-1
Immunity: EN 55024

Recommended System Controller

	PXIS-2630
PXI-3900 series	√

Ordering Information

PXIS-2630

8-Slot 3U PXI/CompactPCI Chassis with 400 W AC Power Supply

PXIS Spare Fan

PXIS Chassis Spare Fan for PXIS-2700 & PXIS-2600 Series

PXIS-2506

6-Slot 3U PXI/CompactPCI Chassis with 250 W CompactPCI Power Module



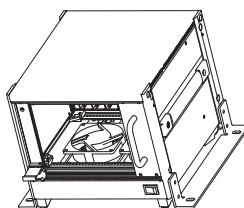
Introduction

Engineered for convenient mobility, the PXIS-2506 is a 3U compact PXI chassis with one system slot and five peripheral slots. The chassis is compliant with PXI and CompactPCI specifications, accepts both PXI and CompactPCI modules, and equips all peripheral slots with PXI functionalities, including a 10 MHz reference clock, start trigger, local bus, and trigger bus.

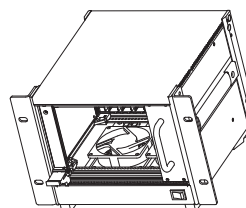
The PXIS-2506 chassis features a 250 W AC CompactPCI power module to provide reliable, round-the-clock power to the system. An optional 250 W DC power module is also available for in-vehicle applications. The power supply is modularly designed and is accessible from the front panel to promote easy field replacement and reduced MTTR (Mean-Time-To-Repair). The PXIS-2506 is the ideal chassis of choice for all bench-top and in-vehicle PXI applications.

Features

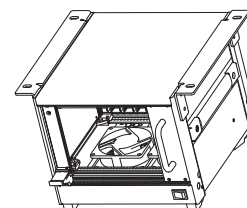
- Supports both 3U PXI and CompactPCI modules
- PXI Specifications Rev. 2.2 compliant
- Provides one system slot and five PXI/CompactPCI peripheral slots
- Modular 250 W AC or DC CompactPCI power supply module
- Filtered, forced air-cooling architecture
- Wall-mount kit included



Wall Mount on the Bottom



Wall Mount on the System Side



Wall Mount on the Top

Specifications

Power Supply

Form factor: PICMG 2.11 compliant CompactPCI power module
 AC input: 100 to 240 VAC, 50 Hz to 60 Hz
 DC output: 250 W

VDC	Minimum	Typical	Maximum
+5 V	2.0 A	25.0 A	33.0 A
+12 V	0.0 A	5.0 A	5.5 A
+3.3 V	0.0 A	18.0 A	33.0 A
-12 V	0.0 A	0.5 A	1.0 A

Cooling

Fans: Two 80 mm x 80 mm x 25 mm ball-bearing fans, 47.2 CFM/each

Physical

Number of PXI Slots: 6 (1 system slot + 5 peripheral slots)
 Dimensions:
 • 221 mm x 178 mm x 237 mm
 (W x H x D, without wall-mount kit and foot stand)
 Weight:
 • 4.5 kg (9.9 lbs)

Operating Environment

Ambient temperature:
 • 0°C to 50°C
 Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature:
 • -20°C to 70°C
 Relative humidity: 5% to 95%, non-condensing

Shock and Vibration

Shock: 15 G_{peak-to-peak}, 11 ms duration
 Random Vibration
 • Operating: 5 Hz to 500 Hz, 0.5 GRMS, each axis
 • Non-operating: 5 Hz to 500 Hz, 1.88 GRMS, each axis

Emissions Compliance

EN 55022
 FCC Class A

CE Compliance

Safety: EN 60950-1
 Immunity: EN 55024

Recommended System Controller

	PXIS-2506
PXI-3900 series	√

Ordering Information

PXIS-2506

6-Slot 3U PXI/CompactPCI Chassis with 250 W CompactPCI Power Module

PXIS-2506/DC24

6-Slot 3U PXI/CompactPCI Chassis with 250 W 24 Vdc CompactPCI Power Module

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Accessories

PXIS-2690P

14-Slot 3U Integrated Portable PXI Chassis with 500 W AC Power Supply



Introduction

The ADLINK PXIS-2690P is one of the world's first highly-integrated, 14-slot portable PXI chassis designed for advanced PXI instrumentation applications. The PXIS-2690P comes with a system slot and 13 peripheral slots that conveniently accommodate multiple PXI modules. The PXI chassis incorporates a bright 15" TFT LCD display with touch panel, keyboard/touchpad, and a slim DVD combo drive into a single frame to provide superior portability and maximum performance.

Constructed in high-quality aluminum alloy, the PXIS-2690P delivers a fortified and compact chassis minus the weight. An industrial-grade 500 W AC power supply comes pre-installed to the chassis and offers reliable and stable power to system components and peripheral modules. With three 120 mm x 120 mm x 25 mm system fans, the PXIS-2690P guarantees superb air flow to maintain a cool and efficient operating temperature. The ADLINK PXIS-2690P is an ideal solution for advanced PXI applications requiring portability, robustness, and easy-deployment.

Notice:

The PXIS-2690P 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 the PXIS-2690P 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.

Features

- Ruggedly-designed for portable instrumentation applications
- Supports both 3U PXI and CompactPCI modules
- PXI Specifications Rev. 2.2 compliant
- Equipped with one system slot and 13 PXI/CompactPCI peripheral slots
- 15" high-brightness TFT LCD display with up to 1024x768 resolution
- Multiple input devices, including keyboard, touch pad, and touch panel.
- Built-in slim-type DVD combo drive
- 500 W industrial-grade ATX power supply



Top cover to protect PXI/cPCI modules and wirings

Specifications

Power Supply

Form factor: 500 W 2U ATX AC power supply
AC input: 100 to 240 V_{AC}, 50 Hz to 60 Hz
DC output: 500 W

VDC	Minimum	Maximum
+5 V	3.0 A	50.0 A
+12 V	2.0 A	35.0 A
+3.3 V	0.3 A	28.0 A
-12 V	0.1 A	0.8 A

Integrated Devices

Display: 15" TFT LCD, up to 1024 x 768 resolution
Input device:

- 87-key keyboard with touchpad
- Built-in 15" touch screen

DVD drive: slim-type DVD combo drive

Cooling

Fans: Three 120 mm x 120 mm x 25 mm ball-bearing fans, 74.5 CFM/each

Physical

Number of PXI Slots: 14 (1 system slot + 13 peripheral slots)
Dimensions: 400 mm x 291 mm x 223.3 mm
(W x H x D, without fan frame)
Weight: 12.5 kg (27.5 lbs)

Operating Environment

Ambient temperature: 0°C to 50°C
Relative humidity: 10% to 90%, non-condensing

Storage Environment

Ambient temperature: -20°C to 70°C
Relative humidity: 5% to 95%, non-condensing

Shock and Vibration

Shock: 10 G_{peak-to-peak}, 11 ms duration
Random Vibration

- Operating: 5 Hz to 500 Hz, 0.31 GRMS, each axis
- Non-operating: 5 Hz to 500 Hz, 2.46 GRMS, each axis

Emissions Compliance

EN 55022
FCC Class A

CE Compliance

Immunity: EN 55024

Recommended System Controller

	PXIS-2690P-B
PXI-3900 series	√

Ordering Information

PXIS-2690P-B

14-Slot 3U integrated Portable PXI Chassis for PXI-3900 Series Controller (shipped with top cover & a carriage bag)

PXIS-2680P

8-Slot 3U Integrated Portable PXI Chassis with Dual-300 W Mini-Redundant AC Power Supply



Introduction

Perfect for portable, rugged, and highly-mobile applications, the ADLINK PXIS-2680P is a 3U PXI instrumentation chassis with 8-slot capacity for both PXI/CompactPCI modules and comprehensive PXI functionalities. It features a PXI trigger bus, star trigger, 10 MHz reference clock, and local bus for instrumentation applications. Equipped with 15" LCD touch screen and multiple input devices, the ADLINK PXIS-2680P does not require any other wiring when deployed with ADLINK's PXI-3900 system controller. From a built-in DVD combo drive that features high-speed data recording and backup, to a pair of 300 W mini-redundant power modules, the PXIS-2680P is suitable for laboratory, power industry, military, and communication applications on or off the road.

Notice:

The PXIS-2680P 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 the PXIS-2680P 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.

Features

- Designed for portable PXI instrumentation applications
- PXI Specifications Rev. 2.2 compliant
- Equipped with one system slot and 7 PXI/CompactPCI peripheral slots
- Two hot-swappable 300 W ATX power supplies with redundancy
- High-brightness 15" TFT LCD display with 1024x768 resolution
- Multiple input devices including keyboard, touch pad, and touch panel
- Built-in slim-type DVD combo drive

Specifications

Power Supply

Form factor: Dual-300 W mini-redundant, hot-swappable AC power supply
 AC input: 100 to 240 VAC, 50 Hz to 60 Hz
 DC output: 300 W

VDC	Minimum	Maximum
+5 V	3.0 A	35.0 A
+12 V	2.0 A	15.0 A
+3.3 V	1.0 A	24.8 A
-12 V	0.1 A	0.8 A

Integrated Devices

Display: 15" TFT LCD, up to 1024 x 768 resolution
 Input device:

- 108-key keyboard with touchpad
- Built-in 15" touch screen

 DVD drive: slim-type DVD combo drive

Cooling

Fans: Two 80 mm x 80 mm x 25 mm ball-bearing fans, 41 CFM/each

Physical

Number of PXI slots: 8 (1 system slot + 7 peripheral slots)
 Dimensions: 400 mm x 291 mm x 223.3 mm
 (W x H x D, without fan frame)
 Weight: 12 kg (26.4 lbs)

Operating Environment

Ambient temperature: 0°C to 50°C
 Relative humidity: 20% to 90%, non-condensing



1 Hot-Swappable Redundant Power Supply



2 Slim-Type DVD Combo Drive

Storage environment

Ambient temperature: -20°C to 70°C
 Relative humidity: 10% to 90%, non-condensing

Shock and Vibration

Shock: 10 G_{peak-to-peak}, 11 ms duration
 Random Vibration

- Operating: 5 Hz to 500 Hz, 0.31 GRMS, each axis
- Non-operating: 5 Hz to 500 Hz, 2.46 GRMS, each axis

Emissions compliance

EN 55022
 FCC Class A

CE compliance

Safety: EN 60950
 Immunity: EN 55024

Recommended System Controller

PXI-3900 series	PXIS-2680P-B
	√

Ordering Information

PXIS-2680P-B

8-slot 3U Integrated Portable PXI Chassis for PXI-3900 Series Controller (shipped with a carriage bag)

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