

NEW

PXIS-2508/2558T

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

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 (32°F to 131°F) extended operating temperature range
- 41.6 dBA silent operation
- Intelligent chassis management
 - Automatic fan speed control
 - Around-the-clock chassis status monitoring
 - Remote chassis management including on/off control
- 5.9 kg lightweight aluminum-metal construction
- 8.4" built-in LCD with touch panel function (PXIS-2558T only)
- 350 W industrial-grade AC power supply
- Power, temperature, and fan monitoring LEDs



PXIS-2558T

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 is a derivative model with an integrated 8.4" LCD that supports 800x600 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. The PXI chassis with rear I/O was 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.



PXIS-2508



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 800x600 resolution. The integrated display transforms the chassis into a stand-alone system that is suitable for bench-top and portable applications.

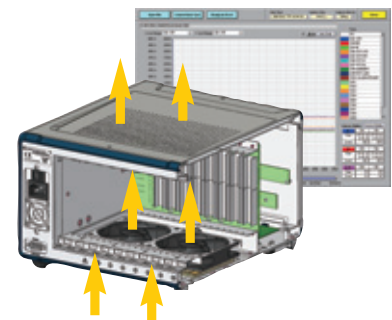


Intelligent chassis management

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 as it is capable of accepting commands from the remote computer.

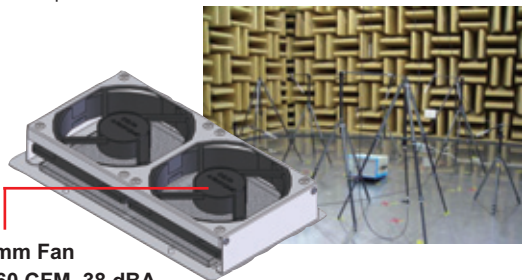
Extended operating temperature range

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

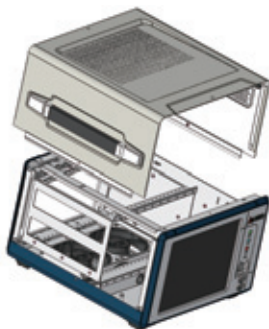
Because chassis fans are major sources of operating noise, the PXIS-2508/2558T fan speed is automatically controlled according to the current internal temperature. This enables the chassis to operate at an ultra-silent 41.6 dBA at room temperature.



92 mm Fan
3000 RPM, 60 CFM, 38 dBA

Lightweight construction

Weight limits portability. That is why the PXIS-2508 and PXIS-2558T combine its lightweight aluminum internal structure with a robust metal shell to provide an easy-to-carry yet rugged PXI system.



Specifications

Power Supply

- AC Input
 - Input voltage range: 100 to 240 V_{AC}
 - Input voltage frequency: 50 to 60 Hz
 - Input current rating: 8 A/115 V_{AC} or 4 A/230 V_{AC}
- DC Output
 - Total DC power output: 350 W

| V _{DC} | 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 | ±10% | 150 mV |

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

Integrated Devices (PXIS-2558T only)

- Display: 8.4" TFT LCD, 800x600 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 Emissions

- Sound Pressure Level (dBA)
 - [measured at operator position, tested in accordance with ISO 7779:1999/Amd.1:2003(E)]
 - Minimal fan speed: 41.6 dB
 - Maximal fan speed: 47.3 dB

- Sound Power (dBA)
 - [tested in accordance with ISO 7779:1999/Amd.1:2003(E)]
 - Minimal fan speed: 51.9 dB
 - Maximal fan speed: 55.5 dB

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

Certification

- Safety: IEC 61010-1/EN 61010-1
- Electromagnetic compatibility
 - Emissions: EN 55011 Class A
 - Immunity: EN 61326-1

CE Compliance

- The PXIS-2508 and PXIS-2558T meet the essential requirements of applicable European Directives.

Recommended PXI Controller

- Use this table to find out which PXI controllers are compatible with the PXIS-2508/2558T.

| | PXIS-2508 | PXIS-2558T-A | PXIS-2558T-B |
|----------------|-----------|--------------|--------------|
| PXI-3920 | ⊙ | -- | ⊙ |
| PXI-3910 | ⊙ | -- | ⊙ |
| PXI-3800 | ⊙ | ⊙ | -- |
| PXI-3800/CM13 | ⊙ | ⊙ | -- |
| PXI-3800/PM18 | ⊙ | ⊙ | -- |
| PXI-3800/PM18+ | ⊙ | ⊙ | -- |
| PXI-8570 | ⊙ | -- | -- |

Ordering Information

- **PXIS-2508**
3U 8-Slot Smart PXI Chassis with 350 W AC Power Supply
- **PXIS-2558T-A**
3U 8-Slot Smart PXI Chassis with 8.4" LCD Touch Panel for PXI-3800 Series controllers
- **PXIS-2558T-B**
3U 8-Slot Smart PXI Chassis with 8.4" LCD Touch Panel for PXI-3900 Series controllers
- **Rack-Mount PXIS-2508/2558T**
Rack-mount kit for PXIS-2508/2558T

- 1 Software Solutions
- 2 PXI/CompactPCI Platforms
- 3 Modular Instrument
- 4 PXI/CompactPCI Modules
- 5 Bus Interface
- 6 GPIB Interface
- 7 PCI/PCI Express[®] DAQ Cards
- 8 PCI/PCI Express[®] DIO Cards
- 9 PC/104-Plus Modules
- 10 ISA DAS/DIO Cards
- 11 System Product
- 12 Wiring Termination Boards
- 13 Motion, HSL, Vision, COM & GEME
- 14 Remote I/O Modules
- 15 Industrial Computers