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PXI

3005 3U 19-Slot Smart PXI Chassis with Universal AC Power Supply

AEROFLEX
A passion for performance.

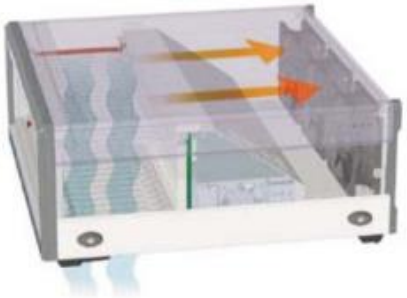


Highlights

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

The Aeroflex 3005 is a supporting 3U PXI module 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



For the very latest specifications visit www.aeroflex.com

Introduction

The Aeroflex 3005 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 3005 includes an Industrial-grade 600 W AC power supply to provide ample reliable power to the entire system. The 3005 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 3005 is your best choices of PXI platform for all your test and measurement requirements.

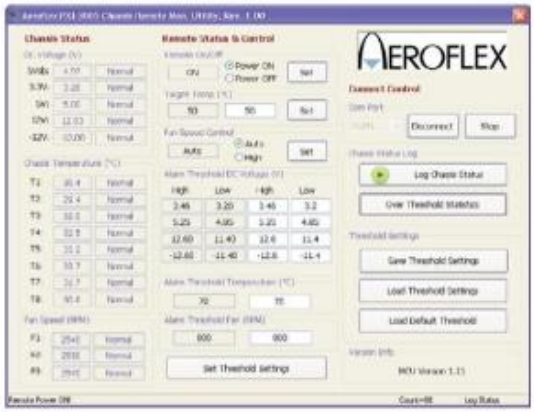
Innovative Cooling Mechanism

The Aeroflex 3005 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 3005 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 3005 chassis.



Flexible Rack-mount Design

Aeroflex also provides an optional rack-mount kit to allow flexible installation of the 3005 in a rack. By adjusting the position of rack-mount bracket, the 3005 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: 85 to 264 VAC full range

Input voltage frequency: 47 to 63 Hz

DC Output

Maximum total usable power is 600 W

VDC	Maximum	Load Regulation	Maximum Ripple & Noise
+5 V	45.0 A	±3%	50 mV
+12 V	15.0 A	±3%	120 mV
+3.3 V	42.0 A	±3%	50 mV
-12 V*	4.75 A	±3%	120 mV

COOLING

Fans

3 sets of 185.9 CFM fans

Per-slot Cooling Capacity

25 W (verified by 55°C chamber test)

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

ORDERING INFORMATION

When ordering please quote the full ordering number information

Ordering Numbers	Versions
3005	19-Slot PXI Chassis
Accessories	
22361/152	Rack Mount Kit
22361/150	EMC Filler Panel
46885/587	Slot Blocker

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