# PXI-8432/4 and PXI-8433/4 Hardware Specifications

This document lists the specifications for the PXI-8432/4 and PXI-8433/4 boards.

### **Environment**

Maximum altitude	. 2,000 m (at 25 °C ambient temperature)
Pollution Degree	. 2
Indoor use only.	
Operating environment	
Ambient temperature range	.0 to 55 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Relative humidity range	. 10% to 90%, noncondensing (Tested in accordance with IEC-60068-2-56.)
Storage environment	
Ambient temperature range	. –40 to 70 °C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
Relative humidity range	.5% to 95%, noncondensing (Tested in accordance with IEC-60068-2-56.)
Shock and vibration	
Operational shock	. 30 g peak, half-sin, 11 ms pulse (Tested in accordance with IEC-60068-2-27. Test profile developed in accordance with MIL-PRF-28800F.)



#### Random vibration

Operating	$5$ to 500 Hz, 0.3 $g_{rms}$
Nonoperating	5 to 500 Hz, 2.4 g <sub>rms</sub>
	(Tested in accordance with
	IEC-60068-2-64. Nonoperating
	test profile exceeds the
	requirements of
	MIL-PRF-28800F, Class 3.)

# **Other Specifications**

Dimensions	
IO connector10-position modular (RJ-50) x4	
Weight	
PXI-8432/4147 g	
PXI-8433/4147 g	
Power requirement (from PCI bus)	
PXI-8432/4	
+5 VDC925 mA typical 2 A maximum	
PXI-8433/4	
+5 VDC950 mA typical 2 A maximum	
Maximum serial transfer rate <sup>1</sup>	
RS-4853,000,000 bps	
RS-2321,000,000 bps	
Maximum cable length	
RS-485 <sup>2</sup> 30 m (limited by EMC/surge)	
RS-2322,500 pF equivalent	
(TIA-EIA-232-F 2.1.4)	
Data line ESD protection (human body model)	
RS-485± 15 kV	
RS-232± 15 kV	

<sup>&</sup>lt;sup>1</sup> Actual speed may vary considerably from speed shown due to system and instrumentation capabilities.

 $<sup>^{2}</sup>$  RS-485 is capable of 1.2 km (4,000 ft) without surge limitation.

# Safety

This product is designed to meet the requirements of the following standards of safety for information technology equipment:

- IEC 60950-1, EN 60950-1
- UL 60950-1
- CAN/CSA-C22.2 No. 60950-1



**Note** For UL and other safety certifications, refer to the product label or visit ni.com/certification, search by model number or product line, and click the appropriate link in the Certification column.

# **Electromagnetic Compatibility**

Emissions	EN 55011 Class A at 10 m FCC Part 15A above 1 GHz
Immunity	EN 61326:1997 + A2:2001, Table 1

CE, C-Tick, and FCC Part 15 (Class A) Compliant.



Note For EMC compliance, operate this device with shielded cabling.

## **CE Compliance**

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

Low-Voltage Directive (safety) ............. 73/23/EEC



**Note** Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain the DoC for this product, visit ni.com/certification, search by model number or product line, and click the appropriate link in the Certification column.

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