PXI-2567 Specifications

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Caution The protection provided by the PXI-2567 can be impaired if it is used in a manner not described in this document.

Definitions

Warranted specifications describe the performance of a model under stated operating conditions and are covered by the model warranty.

Characteristics describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- **Typical** specifications describe the performance met by a majority of models.
- **Nominal** specifications describe an attribute that is based on design, conformance testing, or supplemental testing.

Specifications are **Typical** unless otherwise noted.

Conditions

Specifications are valid at 23 °C unless otherwise noted.

All voltages are specified in DC, AC_{pk}, or a combination unless otherwise specified.

Topology

Topology	Independent

Input[1]

Maximum drive voltage, external power	50 V DC
Maximum drive current	
Per channel	600 mA
Per module	25 A
Internal drive power[2]	5 V at 1.25 A 12 V at 0.5 A

Dynamic

Single-channel operate time[3][4] at 25 °C	60 µs, typical
Channel-to-ground resistance (RDSon)	
0 mA to 600 mA drive current	0.280 Ω, maximum
Channel off drain current (IDSS)	
13 V drive voltage	50 µA, typical
25 V drive voltage	200 µA, typical

Trigger

Input trigger	
Sources	PXI trigger lines <0...7>

Minimum pulse width[5]	150 ns
Front panel/terminal block input voltage	-0.5 V, minimum +0.7 V, VL maximum +2.0 V, VH minimum +3.3 V, nominal +5.5 V, maximum

Output trigger

Destinations	PXI trigger lines <0...7>
Pulse width	Software-selectable: 1 µs to 62 µs
Front panel voltage	3.3 V TTL, 8 mA, nominal

Physical

I/O connector	78-pin D-SUB

PXI power requirement, including optional internal drive power

5 V	8 W
3.3 V	0.5 W
12 V	6 W

Dimensions (L × W × H)	3U, one slot, PXI/cPCI module

	21.6 × 2.0 × 13.0 cm (8.5 × 0.8 × 5.1 in.)
Weight	220 g (8 oz)

Environment

Operating temperature	0 °C to 55 °C
Storage temperature	-20 °C to 70 °C
Relative humidity	5% to 85%, noncondensing
Pollution Degree	2
Maximum altitude	2,000 m

Indoor use only.

Shock and Vibration

Operational Shock	30 g peak, half-sine, 11 ms pulse (Tested in accordance with IEC 60068-2-27. Test profile developed in accordance with MIL-PRF-28800F.)

Random Vibration

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

Compliance and Certifications

Safety Compliance Standards

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1

Note For safety certifications, refer to the product label or the Product Certifications and Declarations section.

Electromagnetic Compatibility

This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 61326-1 (IEC 61326-1): Class A emissions; Basic immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- EN 55022 (CISPR 22): Class A emissions
- EN 55024 (CISPR 24): Immunity
- AS/NZS CISPR 11: Group 1, Class A emissions
- AS/NZS CISPR 22: Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-001: Class A emissions

Note In the United States (per FCC 47 CFR), Class A equipment is intended for use in commercial, light-industrial, and heavy-industrial locations. In Europe, Canada, Australia, and New Zealand (per CISPR 11), Class A equipment is intended for use only in heavy-industrial locations.

Note Group 1 equipment (per CISPR 11) is any industrial, scientific, or medical equipment that does not intentionally generate radio frequency energy for the treatment of material or inspection/analysis purposes.

Note For EMC declarations, certifications, and additional information, refer to the Product Certifications and Declarations section.

Product Certifications and Declarations

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for NI products, visit ni.com/product-certifications, search by model number, and click the appropriate link.

Environmental Management

NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the **Engineering a Healthy Planet** web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

EU and UK Customers

- Waste Electrical and Electronic Equipment (WEEE)—At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit ni.com/environment/weee.

电子信息产品污染控制管理办法（中国 RoHS）

- e15 e40 中国 RoHS— NI 符合中国电子信息产品中限制使用某些有害物质指令(RoHS)。关于 NI 中国 RoHS 合规性信息，请登录 ni.com/environment/rohs_china。(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

[1] Per channel protection circuitry includes overvoltage protection, which activates at 80 V, maximum; over-current protection, which activates at 1.5 A, minimum; and over-temperature which activates at 150 °C junction temperature.

[2] The 5 V and 12 V internal power supplies have fuses for over-current protection. These fuses are user replaceable.

[3] The operate time is measured from an input trigger to 90% activation of a 500 Ω resistor or between consecutive channel operations.

[4] During power-on or reset, all relay drivers disconnect (power down).

[5] The PXI-2567 can recognize trigger pulse widths less than 150 ns if you disable digital filtering. Refer to the **NI Switches Help** for information about disabling digital filtering.