

# NI PXIe-2737/2738/2739

This document includes compliance precautions and connection information for the NI 2737/2738/2739.

## Safety Guidelines

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Operate the NI 2737/2738/2739 only as described in the device user documentation.



**Caution** Do not operate the NI 2737/2738/2739 in a manner not specified in the user documentation. Product misuse can result in a hazard. You can compromise the safety protection built into the product if the product is damaged in any way. If the product is damaged, return it to National Instruments for repair.

## Safety Voltages

Connect only voltages that are within these limits.

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### Maximum switching voltage

Channel-to-channel	100 V
Channel-to-ground	100 V, CAT O

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Measurement Categories CAT I and CAT O (Other) are equivalent and are for measurements performed on circuits not directly connected to the electrical distribution system referred to as MAINS voltage. This category is for measurement of voltages from specially protected secondary circuits. Such voltage measurements include signal levels, special hardware, limited-energy parts of hardware, circuits powered by regulated low-voltage sources, and electronics.



**Caution** Do not connect the system to signals or use for measurements within Measurement Categories II, III, or IV.

## Electromagnetic Compatibility Guidelines

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This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) stated in the product specifications. These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, when the product is connected to a peripheral device or test object, or if the product is used in residential or commercial areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by National Instruments could void your authority to operate it under your local regulatory rules.



**Caution** To ensure the specified EMC performance, operate this product only with shielded cables and accessories.



**Caution** To ensure the specified EMC performance, the length of any I/O cable connected to a BNC PFI port must be no longer than 3 m (10 ft).

# Preparing the Environment

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Ensure that the environment in which you are using the NI 2737/2738/2739 meets the following specifications.

## Environment

Maximum altitude	2,000 m (800 mbar) (at 25 °C ambient temperature)
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Pollution Degree	2
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Indoor use only.

## Operating Environment

Ambient temperature range	0 °C to 55 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)
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Relative humidity range	10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-56.)
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## Storage Environment

Ambient temperature range	-40 °C to 71 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2. Meets MIL-PRF-28800F Class 3 limits.)
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Relative humidity range	5% to 95%, noncondensing (Tested in accordance with IEC 60068-2-56.)
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# Power Requirements



**Caution** The protection provided by the NI PXIe-2737/2738/2739 can be impaired if it is used in a manner not described in the user documentation.

PXI Express	
12 V	24 W
3.3 V	3.6 W

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