

DEVICE SPECIFICATIONS

PXI-2576 Specifications

Multi-Bank Multiplexer

This document lists specifications for the PXI-2576 multiplexer module. All specifications are subject to change without notice. Visit

Topology

Refer to the

Path resistance is a combination of relay contact resistance and trace resistance. Contact resistance typically remains low for the life of a relay. At the end of relay life, the contact resistance may rise rapidly above 1 Ω .

Thermal EMF	<10 μV , typical
Minimum switch load	20 mV/1 mA
Bandwidth	
50 Ω system	
4 \times 1, 8 \times 1 configurations	>30 MHz, typical
16 \times 1 configuration	>20 MHz, typical
32 \times 1 configuration	>15 MHz, typical
64 \times 1 configuration	>10 MHz, typical
100 Ω system	
4 \times 1, 8 \times 1 configurations	>60 MHz, typical
16 \times 1 configuration	>40 MHz, typical
32 \times 1 configuration	>20 MHz, typical
64 \times 1 configuration	>10 MHz, typical
Bank-to-bank crosstalk (50 Ω or 100 Ω system, 4 \times 1 configuration)	
100 kHz	<-75 dB, typical
1 MHz	<-53 dB, typical
10 MHz	<-35 dB, typical
Open-channel isolation (50 Ω or 100 Ω system, 4 \times 1 or 8 \times 1 configuration)	
100 kHz	>79 dB, typical
1 MHz	>52 dB, typical
10 MHz	>40 dB, typical

Dynamic Characteristics

Relay operate time	2 ms, typical 3.4 ms, maximum
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Note Certain applications may require additional time for proper settling. Refer to the

Electrical (resistive)

30 V, 200 mA	2×10^6 cycles, typical
30 V, 400 mA	5×10^5 cycles, typical
30 V, 1 A	1×10^5 cycles, typical
100 V, 100 mA	2×10^6 cycles, typical
100 V, 200 mA	2.5×10^5 cycles, typical
100 V, 300 mA	1×10^5 cycles, typical



Note Relays are field replaceable. Refer to the

Environment

Maximum altitude	2,000 m (at 25 °C ambient temperature)
Pollution Degree	2

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.)
Relative humidity range	10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-56.)

Storage Environment

Ambient temperature range	-20 °C 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-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, 0.31 g _{rms} (Tested in accordance with IEC 60068-2-64.)
Nonoperating	5 Hz to 500 Hz, 2.46 g _{rms} (Tested in accordance with IEC 60068-2-64. Test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Compliance and Certifications

Safety

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 61010-1



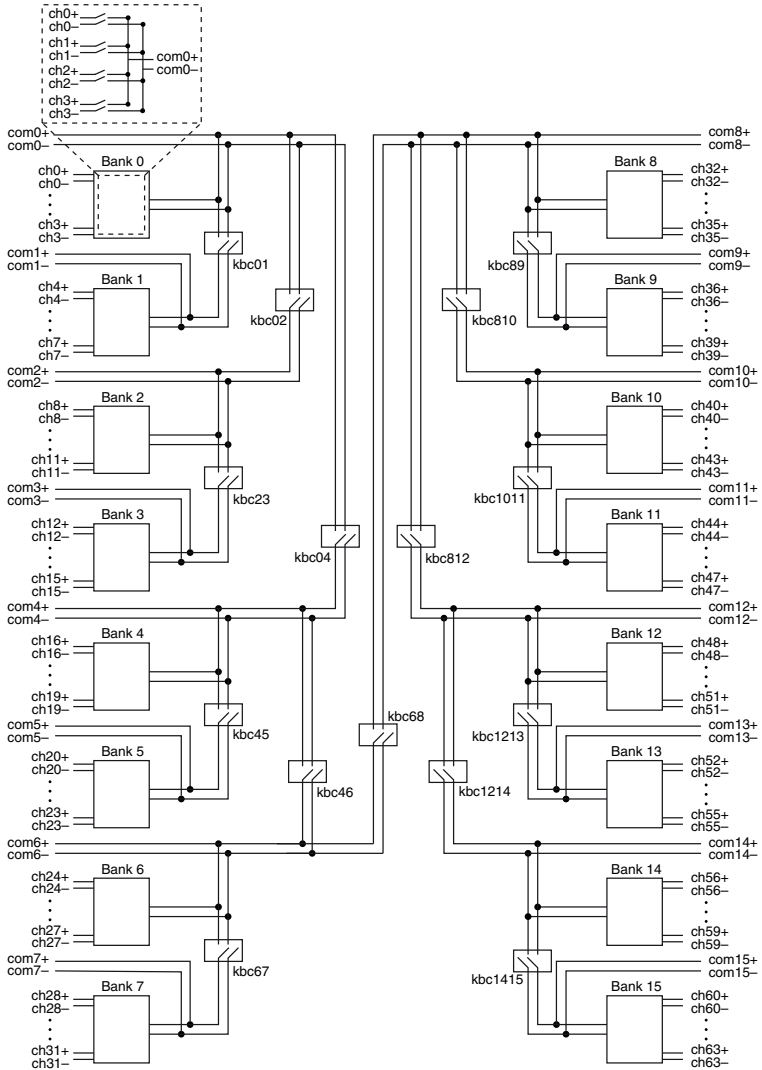
Note For UL and other safety certifications, refer to the product label or the

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.

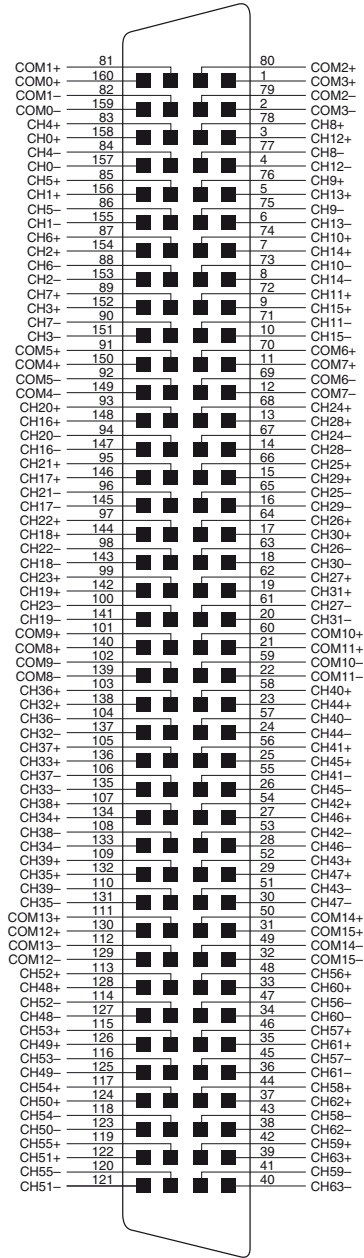
For additional environmental information, refer to the

Figure 1. PXI-2576 Power-on State



The following figure shows the PXI-2576 connector pinout.

Figure 2. PXI-2576 Connector Pinout



Accessories

Visit