# **Specifications for the NI SCXI™-1128**

### 32-Channel Solid State Relay Multiplexer/Matrix

This document lists specifications for the NI SCXI-1128 multiplexer/matrix module. All specifications are subject to change without notice. Visit ni.com/manuals for the most current specifications.

## **Input Characteristics**

All input characteristics are DC, AC<sub>rms</sub>, or a combination unless otherwise specified.

Maximum switching voltage......250 V, CAT II (channel-to-channel and channel-to-ground)



**Caution** Modules that can connect to a common high-voltage analog backplane derate to their lowest common voltage rating. Refer to the *NI Switches Getting Started Guide* for more information.

Maximum switching power ...... 0.3 W (per channel)

DC path resistance .....<1.2  $k\Omega$ 

Offset Voltage

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### **RF Performance Characteristics**

Typical channel-to-channel isolation (50  $\Omega$  termination)

100 Hz	>80 dB
1 kHz	>70 dB
10 kHz	>55 dB
100 kHz	>35 dB
1 MHz	>20 dB

## **Dynamic Characteristics**

## **Trigger Characteristics**

## **Physical Characteristics**

Relay type	Solid state relay (SSR)
Dimensions $(W \times H \times D)$	3.0 cm $\times$ 17.3 cm $\times$ 19.6 cm (1.2 in. $\times$ 6.7 in. $\times$ 7.6 in.)
Weight	605 g (1 lb 6 oz)

#### **Environment**

#### **Accessories**

Visit ni.com for more information about the following accessories.

Table 1. Accessories Available for the NI SCXI-1128

Accessory	Part Number
NI SCXI-1331 terminal block (64x1 1-wire multiplexer) (32x1 2-wire multiplexer) (16x1 4-wire multiplexer)	777687-31
NI SCXI-1332 terminal block (4x8 2-wire matrix)	777687-32
0.40 m matrix expansion cable	185440-0R4
0.75 m matrix expansion cable	185440-0R75

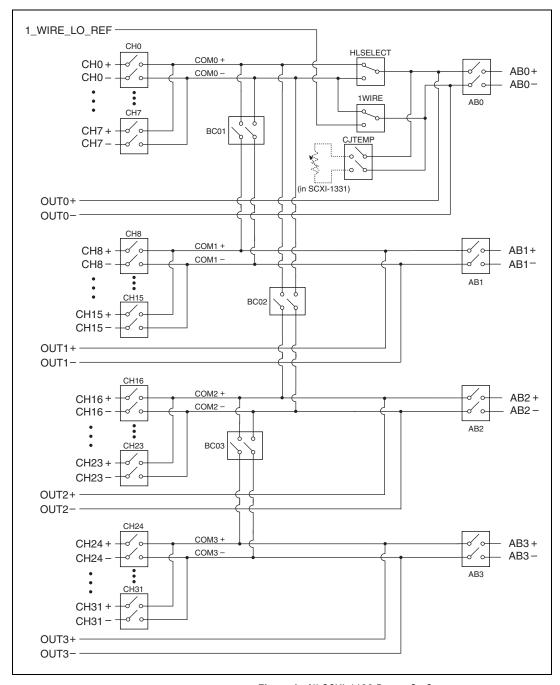


Figure 1. NI SCXI-1128 Power-On State

## **Compliance and Certifications**

### Safety

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

- IEC 61010-1, EN 61010-1
- UL 3111-1, UL 61010B-1
- CAN/CSA C22.2 No. 1010.1



Note For UL and other safety certifications refer to the product label or visit ni.com.

### **Electromagnetic Compatibility**

Emissions	. EN 55011 Class A at 10 m FCC Part 15A above 1 GHz
Immunity	.EN 61326:1997 + A2:2001, Table 1
EMC/EMI	. CE, C-Tick and FCC Part 15 (Class A) Compliant



**Note** For EMC compliance, you *must* 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

Electromagnetic Compatibility
Directive (EMC) .......89/336/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, click **Declarations** of Conformity Information at ni.com/hardref.nsf/.