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SCXI-1332

NI SCXI™-1128 Specifications

32-Channel Solid-State Relay Multiplexer/Matrix

このドキュメントには、日本語ページも含まれています。

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.

Topologies 1-wire 64 × 1 multiplexer
2-wire 32 × 1 multiplexer
4-wire 16 × 1 multiplexer
2-wire 4 × 8 matrix

Refer to the *NI Switches Help* for detailed topology and pinout information.

Input Characteristics

All input characteristics are DC, AC_{rms}, or a combination unless otherwise specified.

Maximum switching voltage
Channel-to-ground..... 300 VDC/250 VAC,
CAT II



Caution This module is rated for Measurement Category II and intended to carry signal voltages no greater than 300 VDC/250 VAC. This module features 250V_{rms} continuous isolation between the input channels and the backplane (bus) as verified by a 2,300 V_{rms} dielectric withstand test, 5 seconds maximum. Do *not* use this module for connection to signals or for measurements within Categories III or IV. Refer to the *Read Me First: Safety and Electromagnetic Compatibility* document for more information about measurement categories.



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.



Caution When hazardous voltages (>42.4 V_{pk}/60 VDC) are present on any relay terminal, safety low-voltage (≤42.4 V_{pk}/60 VDC) cannot be connected to any other relay terminal.



Caution The switching power is limited by the maximum switching current, the maximum voltage, and must not exceed 9 W.

Maximum switching power.....9 W
(per channel)

Maximum switching current30 mA
(per channel)

DC path resistance.....<1.2 kΩ

Offset Voltage
0 °C to 25 °C.....<25 μV
25 °C to 50 °C.....<100 μV

RF Performance Characteristics

Typical channel-to-channel isolation
(50 Ω termination)

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

Dynamic Characteristics

Relay operate time (at 20 °C).....0.25 ms typical,
0.5 ms max



Note Certain applications may require additional time for proper settling. Refer to the *NI Switches Help* for information about including additional settling time.

Release time (at 20 °C).....0.08 ms typical,
0.2 ms max

Maximum scan rate1,200 channels/s

Trigger Characteristics

Input trigger

SourcesSCXI trigger line 0,
Rear connector,
Front panel

Minimum pulse width500 ns

Scanner advanced trigger

DestinationsSCXI trigger line 2,
Front panel

Pulse width1.1 μ s

Physical Characteristics

Relay type.....Solid-state relay (SSR)

Dimensions (L \times W \times H).....19.8 \times 3.0 \times 17.3 cm
(7.8 \times 1.2 \times 6.8 in.)

Weight605 g (1 lb 6 oz)

Environment

Operating temperature.....0 °C to 50 °C

Storage temperature.....-20 °C to 70 °C

Relative humidity5% to 85%,
noncondensing

Recommended warm-up time5 minutes

Pollution Degree2

Maximum altitude2,000 m

Indoor use only.

Accessories

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

Table 1. NI Accessories Available for the NI SCXI-1128

Accessory	Part Number
NI SCXI-1331 terminal block (1-wire 64 \times 1 multiplexer) (2-wire 32 \times 1 multiplexer) (4-wire 16 \times 1 multiplexer)	777687-31
NI SCXI-1332 terminal block (2-wire 4 \times 8 matrix)	777687-32
0.40 m matrix expansion cable	185440-0R4
0.75 m matrix expansion cable	185440-0R75



Caution You *must* install mating connectors according to local safety codes and standards and according to the specifications provided by the connector manufacturer. You are responsible for verifying safety compliance of third-party connectors and their usage according to the relevant standard(s), including UL and CSA in North America and IEC and VDE in Europe.



Note When using the SCXI-1128 with either the SCXI-1331 or the SCXI-1332 terminal block, observe the maximum voltage specifications of the SCXI-1128 (300 VDC/250 VAC).

Figure 1 shows the NI SCXI-1128 in its power-on state.

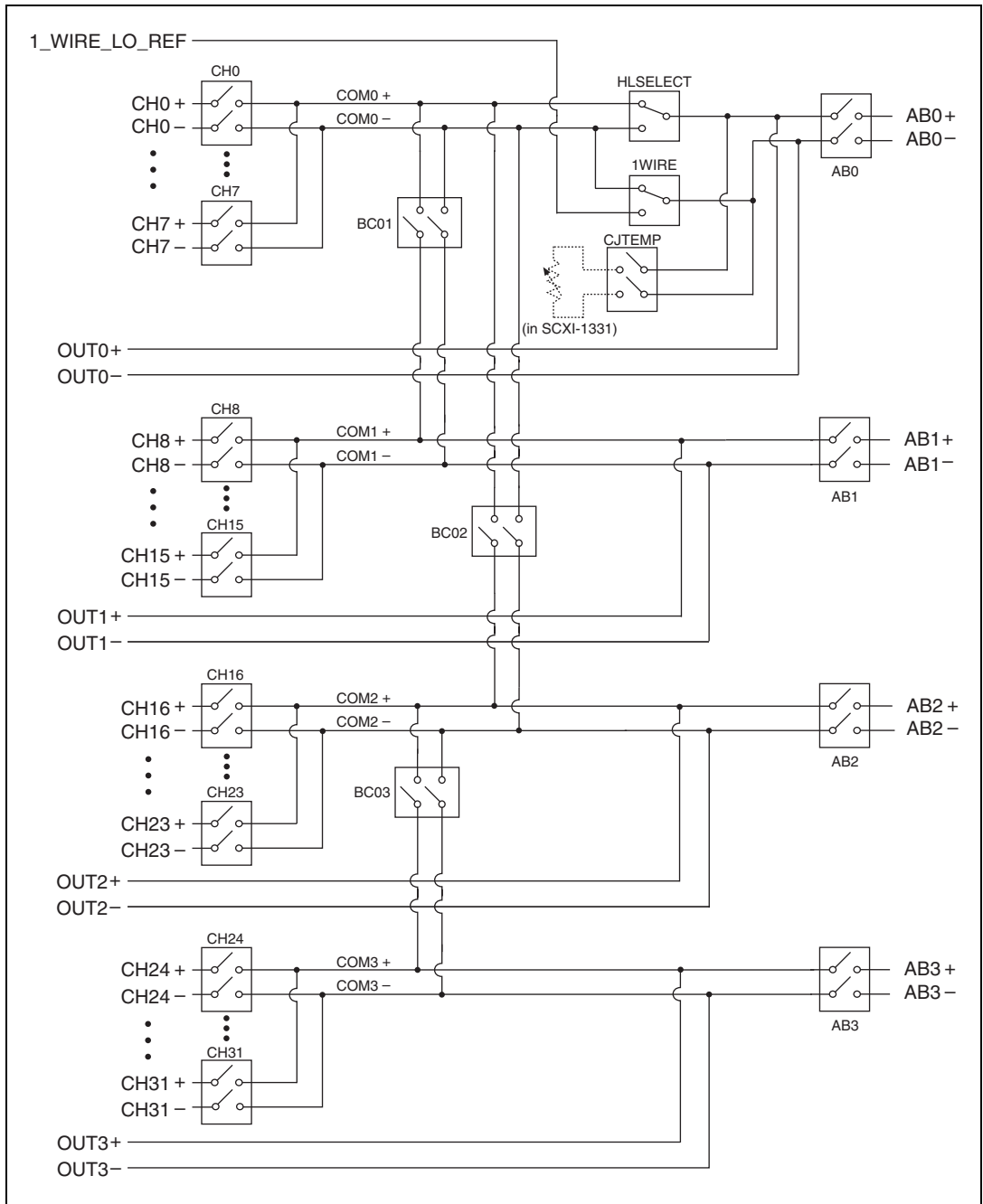


Figure 1. NI SCXI-1128 Power-On State

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 61010-1, CSA 61010-1



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

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

- EN 61326 EMC requirements; Minimum Immunity
- EN 55011 Emissions; Group 1, Class A
- CE, C-Tick, ICES, and FCC Part 15 Emissions; Class A



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

CE Compliance

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

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)



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.

Environmental Management

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For additional environmental information, refer to the *NI and the Environment* 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.

Waste Electrical and Electronic Equipment (WEEE)



EU Customers At the end of their life cycle, all products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers and National Instruments WEEE initiatives, visit ni.com/environment/weee.htm.

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