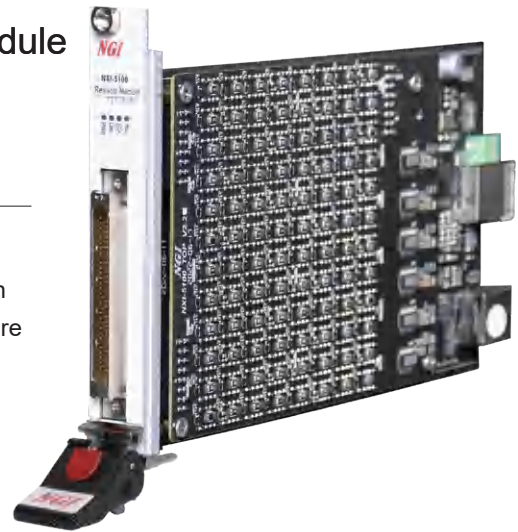


NXI-5100 Series

High Density Programmable Resistance Module

Product Introduction

NXI-5100 is a multi-channel programmable resistance module. Its optional range of resistance is $0\Omega\sim 11.11M\Omega$. Resistance accuracy can be up to 0.1%. For different applications, the flexible design architecture supports a single module with optional 8, 12, 16, and 24 channels. Resistance resolution is up to 1Ω , to meet the needs of different test scenarios. NXI-5100 series can be widely used to simulate NTC resistor, resistive sensor and other simulation test scenes.



Application Fields



NTC temperature simulation



BMS test



Adjustable resistor replacement



Integration test system

Main Features

- Optional in 8/12/16/24 channels
- Optional resistance range: 0Ω (short circuit) $\sim 11.11M\Omega$
- Resistance programming resolution up to 1Ω
- Resistance accuracy: $\pm 0.1\%$
- Resistance maximum power: 0.25W
- Maximum operating voltage: 125VAC, 60VDC
- Slot number: 1
- Applicable to NXI-F1000 series chassis
- Supporting 12VDC power supply input, LAN communication control
- DLL driver files available for C++, .NET, VB, Delphi and other programming languages
- Supporting Modbus-RTU and SCPI protocols

Technical Data Sheet

Channels Resolution	24CH	16CH	12CH	8CH
1Ω	NXI-5100-110/24	NXI-5100-1.11k/16	NXI-5100-11.11k/12	NXI-5100-1.11M/8
10Ω	NXI-5100-1.1k/24	NXI-5100-11.1k/16	NXI-5100-111.1k/12	NXI-5100-11.11M/8
100Ω	NXI-5100-11k/24	NXI-5100-111k/16	NXI-5100-1.11M/12	/
1kΩ	NXI-5100-110k/24	NXI-5100-1.11M/16	NXI-5100-11.11M/12	/
10kΩ	NXI-5100-1.1M/24	NXI-5100-11.1M/16	/	/
100kΩ	NXI-5100-11M/24	/	/	/
General Parameter				
Maximum Switching Voltage	125VAC, 60VDC			
Resistance Maximum Power	0.25W			
Resistance Accuracy	±0.1%			
Resistance Temperature Coefficient	25ppm/°C			
Residual Resistance(Rr)	Typical: 3Ω (When resistance is programmed to 0Ω)			
Maximum Switching Current	0.5A			
Switch Closing Time	<1.1ms			
Switch Release Time	<0.4ms			
Expected Switch Life	Low-load application:>1×10 ⁸ times operation, Full-load application:>1×10 ⁶ times operation			
Others				
Test Terminal	SCSI connector, 68pin			
Operating Power Supply	12VDC±10%, <2A			
Interface ¹	LAN			
Temperature	Operating temperature: 0°C~40°C, storage temperature: -20°C~60°C			
Operating Environment	Altitude: <2000m, relative humidity: 5%~90%RH (non-condensing), atmospheric pressure: 80~110kPa			
Dimension	130.5(H)*20(W)*230.5(D)mm (with puller)			

Note 1: For more and latest information, please contact NGI.
 Note 2: For other specifications, please contact NGI.
 Note 3: All specifications are subject to change without notice.