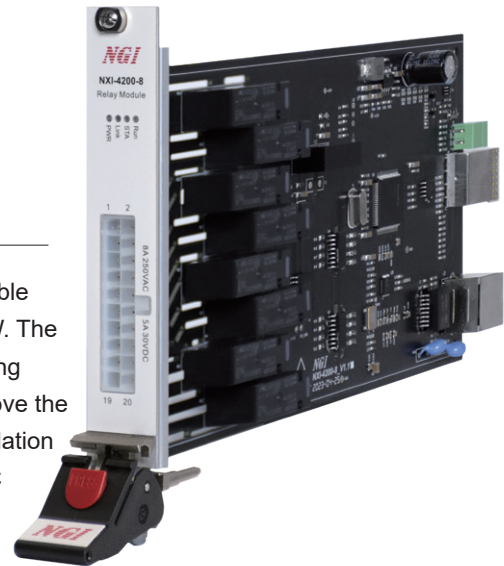


NXI-4201-24

Universal Relay Control Module

Product Introduction

NXI-4201-24 is a 24-channel relay control module with a highly reliable electromagnetic relay, and its high power signals capacity up to 24W. The control circuit of NXI-4201-24 is electrically isolated from the switching circuit; Therefore, it can effectively protect the test system and improve the test safety. NXI-4201-24 has a strong loading capacity and good isolation performance, and it can be widely used in various scene that AC/DC voltage and current need to be switched.



Application Fields



Circuit Switching Control



Signal ON/OFF Simulation



Integrated Test Systems



Integrated Test System

Main Features

- 24 channels, support SPST (Single Path Single Throw)
- Switching Load: 0.5A/120VAC, 1A/24VDC
- Action Time: 10ms (typical)
- Dielectric Strength: coil-contact 4000V AC
- Contact Resistance: 100mΩ
- Mechanical life up to 5×10^6 times
- Single module with single slot, applicable to NXI-F1000 chassis or independent use
- Support 12V DC power supply input, LAN communication for individual control
- Support Modbus-RTU, SCPI protocols

Technical Data Sheet

Model	NXI-4201-24
Channels	24
Topological Structure	24-SPST Universal Switch
Hot swap Load	Max. Current: 1A
	Max. Voltage: 24VDC/120VAC
Cool Switch Load	Max. Current: 1A
	Max. Voltage: 24VDC/120VAC
	Max. Power: 24W/60VA
	Min. Switch Capacity: 10mA, 5VDC
Min. RDS(ON)	100mΩ Max@5V/1A
Open Circuit Resistance	10MΩ
Bandwidths	20MHz
Action Time	10ms typical
Switching Life	Mechanical Min. operations 5x 10 ⁶ times
	Electronic Min. operations 1×10 ⁵ times
Dielectric Strength	Coil-Contact 1000V AC, 50/60Hz 1 minute
	Contact-Contact 400V AC, 50/60Hz 1 minute
	Control-Switch 1000V DC, 50/60Hz 1 minute
Others	
Test Terminal	MDR Connector, 50Pin
Operating Power	12VDC±10%, <0.5A
Communication Interface	LAN
Temperature	Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C
Operating Environment	Altitude: <2000m; Relative humidity: 5%~90% (no condensation); Operating air pressure: 80~110kPa
Dimensions	130.5mm (H) *20mm (W) *230.5mm (D) (with puller)

Note 1: For more and latest information, please contact NGI.

Note 2: For other specifications, please contact NGI.