

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% RH(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.