

NXI-4101-32 High-Speed Digital I/O Module



Product Introduction

NXI-4101-32 is a 32-channel programmable high-speed digital IO module that supports CMOS electric level(3.3V/5V optional), the input/output direction of channel can be configured flexibly. NXI-4101-32 supports dry/wet contact input and various functions such as PWM output, pulse measurement, counter/timer,etc. NXI-4101-32 can be widely used in high-speed digital signal detection, measurement and transmission control in industrial control, intelligent manufacturing and other scene.

Application Fields



Automotive ECU Testing



Electronic Device Controller



Electronics Production Testing



Integrated Test System

Main Features

- ▶ Single module with 32 channels, digital input and output
- ▶ Input/output direction optional configuration for 24 digital I/O channels
- ▶ Support CMOS electric level, 3.3V/5V optional
- ▶ Support wet contact and dry contact input
- ▶ Synchronous channel input/output, synchronous time tolerance: 1.25ns
- ▶ Support PWM output, and the measurement of pulse frequency, period and pulse width
- ▶ Support Timer/counter and interrupt handling
- ▶ 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 protocols

Technical Data Sheet

Model	NXI-4101-32	
Channels	32	
Channel Type	24-channel digital IO, 4-channel PWM output, 2-channel counter, 2-channel frequency meter	
Level Type	CMOS (3.3V/5V available)	
Input Voltage	At 3.3V, L: $\leq 0.8V$, H: $\geq 2V$	At 5V, L: $\leq 1.5V$, H: $\geq 3.5V$
Output Voltage	At 3.3V, L: $\leq 0.55V$, H: $\leq 2.64V$	At 5V, L: $\leq 0.55V$, H: $\geq 4.2V$
Output Drive Capability	3.3V@24mA	5V@32mA
Input FIFO Capacity	16 MBYTE	
Output RAM Capacity	512 samples	
Output PWM Maximum Frequency	40MHz	
Others		
Test Terminal	MDR Connector, 50Pin	
Operating Power	12VDC $\pm 10\%$, <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.