

## NXI-6102/6103 High Voltage Analog Input Module



### Product Introduction

NXI-6102/6103 is a 16-bit 8-channel analog input module for high voltage data acquisition, supporting up to  $\pm 60V$  analog acquisition, total sampling rate of up to 800 KS/s and an accuracy of up to  $0.03\%+0.02\%$  F.S. The NXI-6102/6103 can be used either in the NXI modular instrumentation measurement and control chassis, or used separately. It widely used in a variety of scenarios, such as automotive electronics testing, industrial control, experimental teaching and research etc.

### Application Fields



High Voltage Electrical  
Signal Acquisition



Electronic Controller Testing



Industrial Controls



Integrated Test Systems

### Main Features

- ▶ NXI-6103:  $\pm 60V/\pm 10V/\pm 5V/\pm 1V/\pm 200mV$
- ▶ NXI-6102:  $\pm 30V/\pm 10V/\pm 5V/\pm 1V/\pm 200mV$
- ▶ 8-channel analog input with inter-channel isolation
- ▶ Total input sampling rate: 800KS/s
- ▶ Single channel sampling rate up to 100 KS/s
- ▶ Support trigger function, multi-channel synchronous acquisition
- ▶ Support internal/external clock source selection
- ▶ Acquisition storage capacity: 4MB\*8
- ▶ Single card with single slot, applicable to NXI-F1000 chassis or independent use
- ▶ Support 12VDC power supply input, LAN/CAN communication for individual control
- ▶ Support Modbus-RTU, SCPI and CANopen protocols

## Technical Data Sheet (1)

Model	NXI-6102-8/16				
Analog Input					
Channels	8CH				
Max. Range	±32V				
Total Sampling Rate	800KS/s				
Range	±30V	±10V	±5V	±1V	±200mV
Resolution	0.1mV				0.1μV
Gain Temperature Coefficient	30ppm/°C				
Accuracy(25±5°C)	0.03%+0.02%F.S.				0.05%+0.05%F.S.
Input Impedance	>1MΩ				
Others					
Test Terminal	SMB terminal				
Isolation Voltage (Inter-channel)	300V DC				
Operating Power	12VDC±10%, <1A				
Communication Interface	LAN/CAN				
Temperature	Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C				
Operating Environment	Altitude:<2000m; Relative humidity:5%~90% (no condensation) ; Atmospheric pressure:80~110kPa				
Dimensions	130.5mm(H)*20mm(W)*230.5mm(D)(with puller)				

## Technical Data Sheet (2)

Model	NXI-6103-8/16				
Analog Input					
Channels	8CH				
Max. Range	±64V				
Total Sampling Rate	800KS/s				
Range	±60V	±10V	±5V	±1V	±200mV
Resolution	0.1mV				0.1μV
Gain Temperature Coefficient	30ppm/°C				
Accuracy(25±5°C)	0.03%+0.02%F.S.				0.05%+0.05%F.S.
Input Impedance	>1MΩ				
Others					
Test Terminal	SMB terminal				
Isolation Voltage (Inter-channel)	300V DC				
Operating Power	12VDC±10%, <1A				
Communication Interface	LAN/CAN				
Temperature	Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C				
Operating Environment	Altitude:<2000m; Relative humidity:5%~90% (no condensation) ; Atmospheric 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.