

DI32

Isolated Digital Input Card



Features

- 32 isolated digital input or frequency measurement channels
- Input voltage range: 3 V to 52 V (5 sub-ranges)
- Input current range: 3 to 10 mA
- Input frequency up to 30kHz / 5MHz
- Frequency or phase measurement
- Programmable debounce logic
- Interrupts generation on input events
- 1500 V isolation to system and between channels
- On-board isolated 12 V DC/DC converter for dry contact support
- Extended operating temperature range from -40°C to +85°C

Description

The DI32 card is designed in Micro PC format and accepts 32 digital or frequency inputs from 3 V to 52 V DC. All lines are isolated from system and from each other.

The module uses an FPGA chip (XILINX XC5204TM) for signal processing. The input channels can be connected in differential or single-ended (with common ground) modes.

The DI32 provides dry contact support using the on-board 12V DC/DC converter or external (up to 52V) power source.

The TB-34 series terminal boards and FC34 ribbon cables are used for external connections.

Technical Specifications

Input channels working voltage range

The range is set by a plug-in resistor set.

Input voltage range, V	Plug-in resistor set nominal, ohm
3.5-12.0	470 (*)
11.0-25.0	2.2 K (installed)
22.0-35.0	4.7 K (*)
32.0-42.0	6.8 K
47.0-52.0	10 K (*)
* – supplied with card package	

Input delay

25 μ s max

Isolation to system and between channels

1500 VDC

Power requirements

+5 V \pm 5% @ 250 mA max

Environmental conditions

Operating T range from -40°C to +85°C, humidity from 5% to 95% at +25°C

Ordering Information

DIC11201 Versions

Device Type

DIC11201
DIC11202

DI32, isolated digital input card, 32 lines

DI32, isolated digital input card, 32 lines, on-board DC/DC power converter for dry contact support

Accessories

TIB96601
ACS00003

TB-34, terminal board, 34 contacts

FC34-60, ribbon cable, 34 threads, IDC connectors, 0.6 m (2 ft)

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