

OP5311 Digital Input Signal Conditioning Module

16 Digital Input lines with Signal Conditioning
Mezzanine Module for OP5210 (Type A) Carrier

- Up to 16 input lines with on-board signal conditioning
- Conversion from up to 30 Vdc to TTL, current sink and isolation provided by built-in signal conditioning units
- Over-voltage protection with opto-isolation

The **OP5311** is one of a range of signal conditioning modules for the OP5000 FPGA I/O system from Opal-RT Technologies. It allows up to 16 digital signals to be input through a single module. Given that both the OP5210 carrier can accommodate up to two mezzanine modules, it allows up to 32 signals to be captured per carrier. Several carriers can be connected to a single board slot on an RT-LAB simulator via the OP5110 or OP5120 I/O interface for very high channel counts.

The **OP5311** features on-board signal conditioning to convert external voltage levels to TTL, as well provide over-voltage protection through opto-isolation.



TECHNICAL SPECIFICATIONS

Digital Input

Number of channels: 16
Max Output Range: 0 - 28 Vdc
Input Protection: opto-isolated
Output Compatibility: 5V TTL

Bus

Mezzanine Connector to Carrier

Physical Dimensions

6.7 cm x 10.8 cm (2.65" x 4.25")

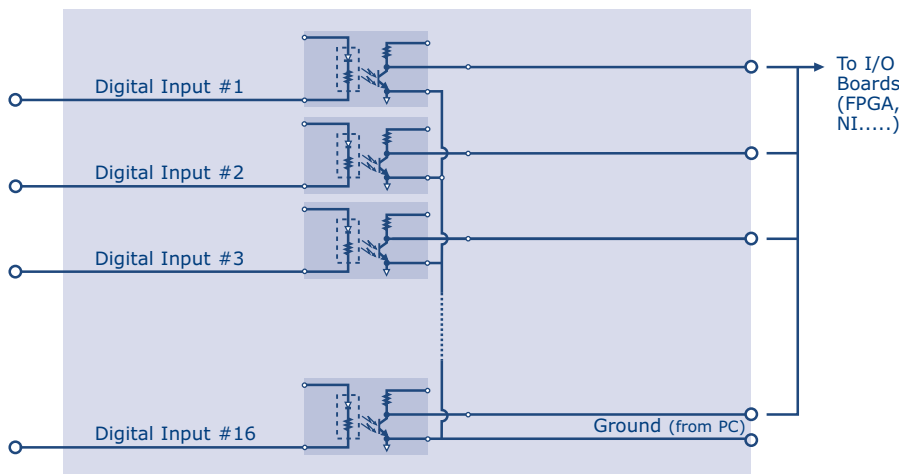
Environmental

Operating temperature: -40 to 70 °C
Storage temperature: -55 to 85 °C
Relative humidity: 10 to 90%,
non condensing
Maximum altitude: 2,000 m

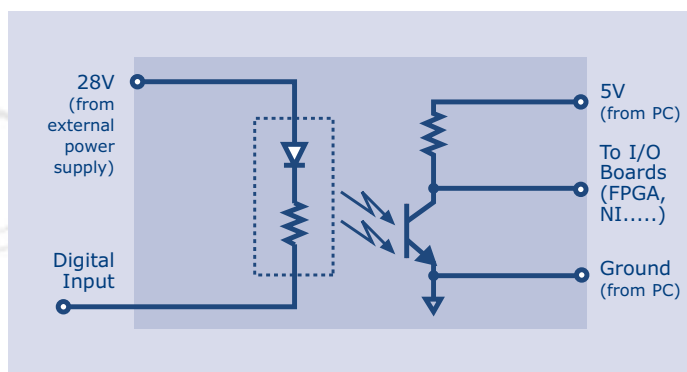
Pinouts

See channel pinout information for OP5210

OVERVIEW



CHANNEL DETAIL



Our engineers can develop any signal-matching solution to incorporate your hardware into the simulation system. Contact us at 1-877-935-2323 or e-mail : info@opal-rt.com to discuss your signal conditioning requirements.



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