

OP5312 Digital Output Signal Conditioning Module

Signal Conditioning for up to 16 Digital Output Lines
Mezzanine Module for OP5210 (Type A) Carrier

- Up to 16 output lines with on-board signal conditioning
- Conversion from TTL to up to 28 Vdc, current source and isolation provided by built-in signal conditioning units
- Short-circuit protection with opto-isolation

The **OP5312** 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 output 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 generated 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 **OP5312** features on-board signal conditioning to convert TTL to external voltage levels, as well provide short-circuit protection through opto-isolation.



TECHNICAL SPECIFICATIONS

Digital Output

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

Bus

Mezzanine Connector to Carrier

Physical Dimensions

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

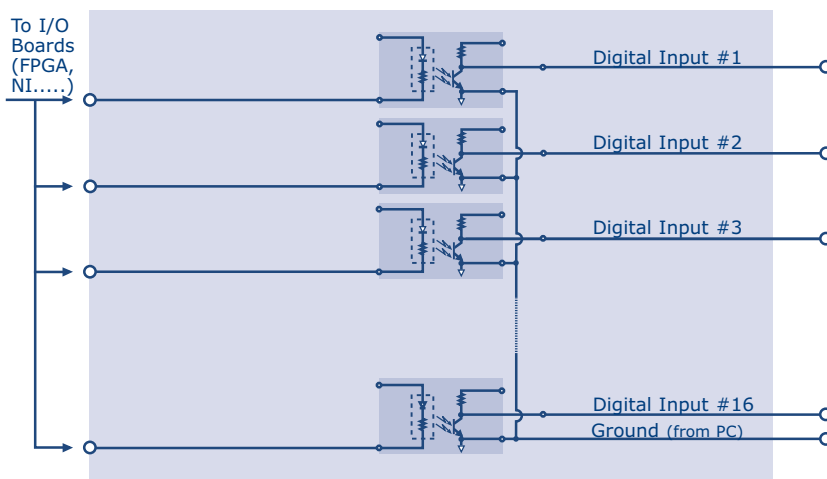
Environmental

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

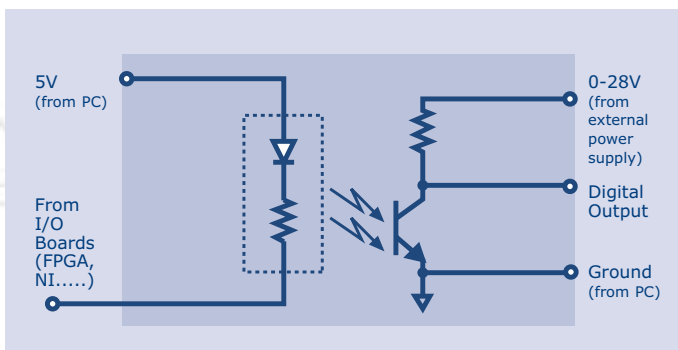
Pinouts

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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