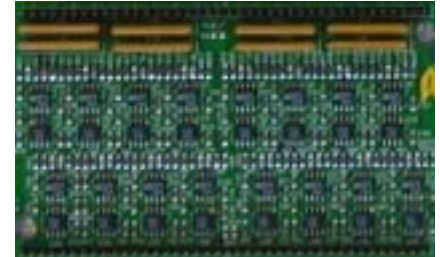




OP5320 Signal Matching Module

Signal Gain and Offset for 16 Analog or Digital I/O Channels
Mezzanine Module for OP5210 (Type A) Carrier

- Can be used for input or output signals, depending on orientation in the OP5210 Carrier
- Configurable gain and offset for signal normalization (input) or matching to external signal requirements (output)
- 16 differential lines
- Provides analog or digital matching, uni- or bi-polar, for OP5300 I/O modules, as well as third-party analog I/O hardware



The **OP5320** is one of a range of signal conditioning modules for the OP5000 FPGA I/O system from Opal-RT Technologies. A single module allows up to 16 I/O signals to be converted to a level required by either the analog conversion board or the external hardware, depending on the signal direction. Given that the OP5210 carrier can accommodate up to two mezzanine modules, it allows up to 32 signals to be conditioned per carrier.

The **OP5320** handles voltage levels up to 100 Vdc, allowing a greater level of voltage matching than the integrated signal conditioning on the OP5340 analog input module and can be used to provide a means of applying an offset voltage to digital I/O thus allowing bipolar signals to be connected to OP5311 and OP5312 modules. The OP5320 can also be used to condition analog and digital signals for third-party I/O hardware, such as National Instruments and Acromag.

TECHNICAL SPECIFICATIONS

Physical Dimensions

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

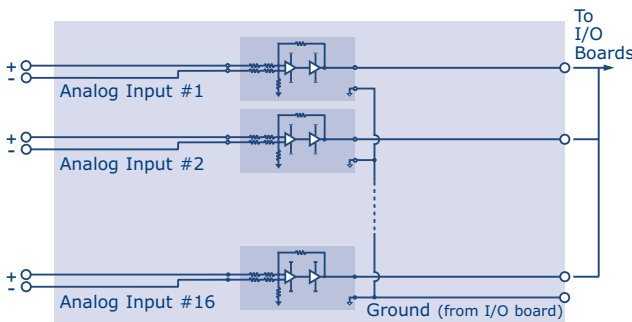
Environmental

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

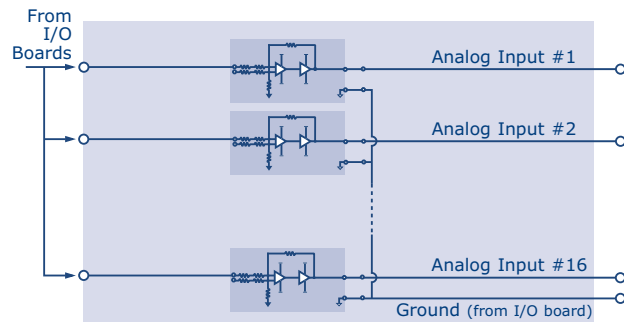
Pinouts

See channel pinout information for OP5210

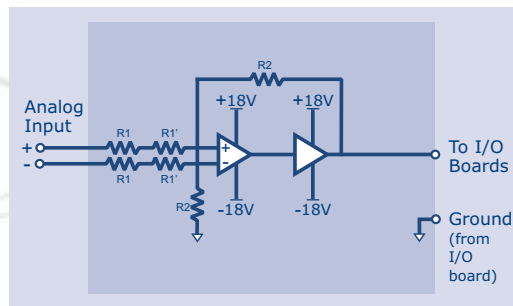
INPUT MODE: OVERVIEW



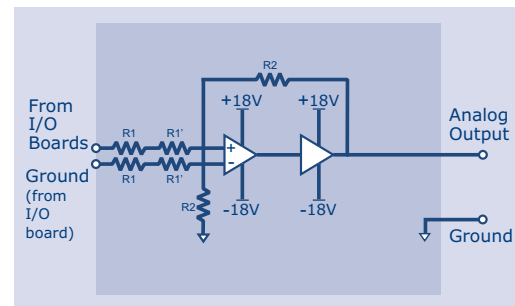
OUTPUT MODE: OVERVIEW



INPUT MODE: DETAIL



OUTPUT MODE: 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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