

OP4230-1 - 16 Analog Outputs

The OP4230-1 digital to analog converter (DAC) provides 16 single-ended digital output channels. Each channel uses a 16-bit resolution digital-to-analog converter.

Each OP4230-1 can sample up to 1 MS/s, giving a total throughput of 16 MS/s, all channels are simultaneously sampled. The onboard EEPROM provides offset and gain data adjustment written during the calibration process.

By default, the maximum output signal is set to ± 16 volts.

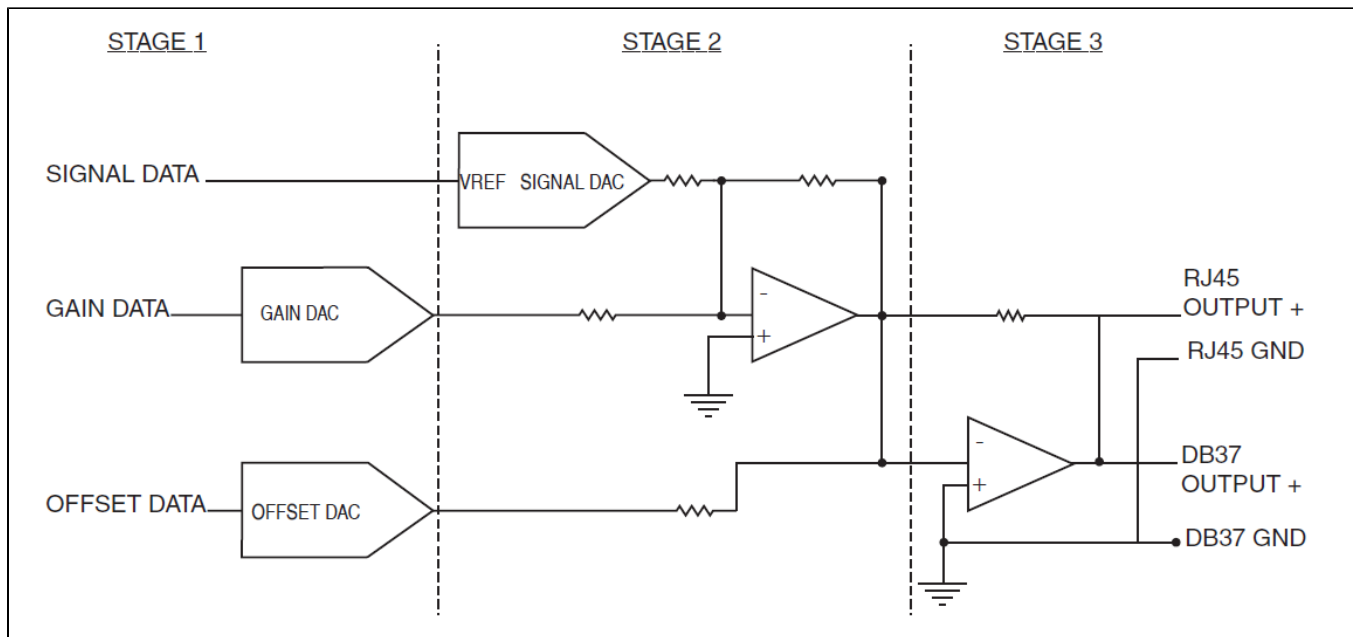
Features

- 16 single-ended analog output channels
- All outputs are sampled simultaneously, up to 1 MS/s
- 16-bit resolution
- ± 16 V voltage range output
- ± 15 mA maximum current per channel
- Factory calibrated

Schematics

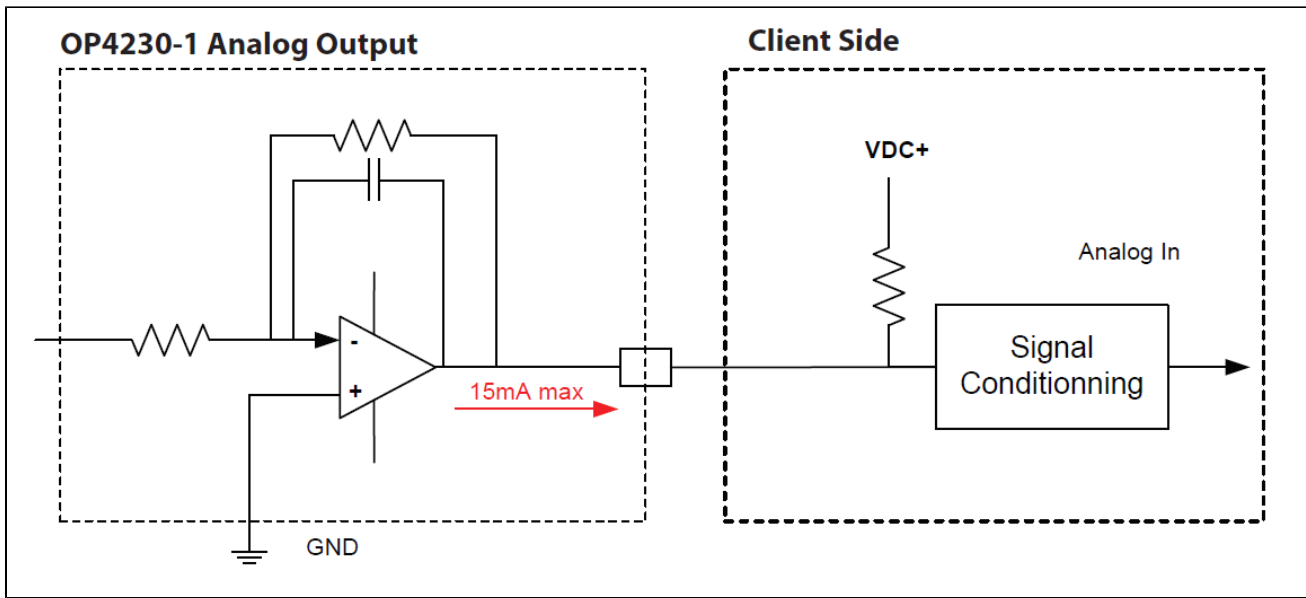
The figure below represents a simplified schematic of one channel of the OP4230-1 module.

It is composed of three stages: the first stage consists of one gain DAC and one offset DAC; the second stage consists of a signal DAC with an operational amplifier that allows for gain adjustments; the third stage consists of an operational amplifier that receives final signal value and integrates the offset.



Typical Applications

The following diagrams provide an example of a typical application using the OP4230-1.



The OP4230-1 cassette includes the [OP5330-3](#) mezzanine card.