



2105 DAC2

4 Channel digital-to-analog converter



FEATURES

- 4 analog output channels
- Signal bandwidth: DC to 50 KHz
- Output signal range per channel
 - 0 volts to +1V, +2V, +5V, +10V
 - -10V to +10V
- 10 mA sink / source output
- Multiple sample rates
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- Isolated BNC connectors
- Single slot module

OVERVIEW

This DAC2 reproduces up to 4 analog signals having a bandwidth of up to 50KHz that was digitized by the companion AADC2 module at a MUX site. The DAC2 selects data samples based on its channel ID. A frequency synthesizer reconstructs the original sample rate and this is used to move the data to the output digital to analog converters.

The DAC2 plug-in module is a single slot wide AL4300 series compatible card. The analog output signals are provided on isolated BNC connectors on the I/O panel of the module. Operation of the module only requires setting the Channel ID.

The 2105 is used in conjunction with the Apogee Labs' 4008 AADC2 module.

SPECIFICATIONS

GENERAL

- Single slot module
- Compatible with AL4300 series Multiplexer/Demultiplexer
- Automatically set module sampling rates: 1ksps, 10ksps, 20ksps, 50ksps, 100ksps
- Automatically set digital sample size: 8 bits, 10 bits, 12 bits
- Restoration of previous settings on power up
- Compatible with 1ms and 10ms system sample intervals
- Programmable module identifier
- Isolated BNC connectors

ANALOG OUTPUT

- 4 isolated outputs
- Output voltage range automatically set per channel: 0V to +1V, +2V, +5V, +10V; -10V to +10V; 10mA source / sink
- Output short
- Integral non-linearity: +/-0.05%
- Accuracy: better than 1.5%
- Noise: 3mVp-p max

COMPLEMENTARY HARDWARE

- 4008 AADC2