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Find the *Abaco Systems / SBS / Greenspring IP-DAC* at our website: *Click HERE*

IP-DAC

Six-Channel 12-Bit DAC IndustryPack®

Application Information

The IP-DAC provides six channels of 12-bit digital to analog conversion on a single-wide IndustryPack®. Any one of Ćve output ranges may be selected individually for each DAC channel via shunts. A single high-precision (3ppm/C) reference provides exceptional stability. Alternatively, an external reference may be provided.

Each of the six channels is factory calibrated and the offset and gain correction factors are stored in the ID PROM. Software may use this calibration information to provide output voltages accurate to within one LSB.

FEATURES:

- Six 12-bit DACs on a single-wide IndustryPack®
- Output ranges of -5, -10, 5, 10, ±2.5, ±5, and ±10 V individually selectable per channel
- 20 us settling time for 10 V output step
- Factory-calibrated; data in ID PROM
- High-precision reference
- Sense input for each channel
- Simple 16-bit software interface

abaco SYSTEMS

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IP-DAC Six-Channel 12-Bit DAC IndustryPack®

Specifications

Form Factor
- Single-wide IndustryPack

IndustryPack Bus Speed
- 8 MHz

Wait States
- None on ID read One on DAC writes

Number of Channels
- 6

Precision
- 12 bits

Output Voltage Ranges
- -5, -10, 5, 10, ±2.5, ±5, ±10 V Hardware selected for each channel individually

Output Current
- ± 2.5 mA on 10 V output
- ± 10 mA on 5 V output

Accuracy
- ± 1 LSB after calibration

Calibration
- Onboard reference 3ppm/C
- Offset and gain factory calibrated

Settling Time
- 10 mV step: 12 us
- 10 V step: 20 us

Initialization
- Reset does not change DAC outputs

Dimensions
- 3.9" x 1.8"

Weight
- 0.113 lb (0.051 kg)

Power Requirements (no load)
- +12 VDC, 25 mA typical
- -12 VDC, 25 mA typical
- -12 VDC, 25 mA typical
- All outputs unconnected

Environmental
- Operating temperature: +10° to +50°C
- Humidity: 5 to 95% non-condensing
- Storage: -40° to +85°C

Ordering information

IP-DAC	IndustryPack with six 12-bit DACs

Associated Products

IP-TERM	Fifty screw terminal block with ribbon connector

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