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Find the *Abaco Systems / SBS / Greenspring IP-16ADC* at our website: *Click HERE*

IP-16ADC

IndustryPack® with 16 channel, 16-bit analog to digital conversion

Features

- Up to 16 single-ended or eight differential 16-bit ADC channels
- Precision on-board reference
- Input ranges of 0-5V, 0-10, ±5V, ±10V
- 10 µs conversion time
- Factory calibrated; data in ID PROM

The IP-16ADC provides 16 single-ended or eight differential channels of 16-bit analog to digital conversion on a single-wide IndustryPack. The single-ended and differential inputs may be mixed. A programmable gain amplifier provides a selection of input ranges. Conversions take place in less than 10 µs.

Gain and offset calibration parameters are stored in the board's ID PROM.

Note that this product ***requires*** an external low noise +/- 15 VDC power supply.

Specifications

Form Factor	Single-wide IndustryPack
IndustryPack bus speed	8 MHz
Wait states	One on writes; none on reads
Number of channels	16 ADC single-ended or 8 ADC differential (may be mixed)
Precision	16 bits
Input voltage ranges	0-10V, 0-5V, ±10V, ±5V nominal; selectable by software
Accuracy	16 bit with no missing codes 0.002% typical (ADC and amp)
Calibration	Offset and gain factory calibrated. Parameters in ID PROM
Conversion time	8 µs. 100 ksamples/sec aggregate if single channel driven
Input impedance	60 Mohm
Input protection	±65 V with power on, ±80 V with power off
Reference	1ppm/C typical, 0.01% accuracy
Dimensions	1.8 inches x 3.9 inches
Power Requirements	+5 VDC, 210 mA typical, 270 mA max +15 VDC external, 45 mA typical, 70 mA max –15 VDC external, 45 mA typical, 70 mA max
Environmental	Operating temperature: 0° to +70°C Humidity: 5% to 95% non-condensing Storage: –10° to +85°C

Order Information

IP-16ADC	IndustryPack with sixteen 16-bit ADC channels
IP-TERM	50-screw terminal block with ribbon connector

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