

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-16ADC IndustryPack Module

The IP-16ADC is a single-wide IndustryPack module delivering 16-bit analog-to-digital conversion with flexible input channel configuration. It accepts 16 single-ended or 8 differential input channels - channels can be mixed and paired to form differential inputs. Conversion completes in 8 microseconds with aggregate throughput up to 100,000 conversions per second. Four software-programmable input ranges (0–5 V, ± 5 V, 0–10 V, ± 10 V) accommodate diverse signal levels. On-board precision voltage reference maintains 1 ppm/ $^{\circ}$ C stability and 0.01% accuracy. Basic accuracy reaches ± 1 LSB with software-triggered auto-calibration; typical ADC and amplifier accuracy is 0.002%. Input impedance is 60 M Ω . The module operates in single-conversion and continuous-conversion modes with integrated tracking-and-hold circuitry for accurate time-varying signal measurement. Rated for 0 $^{\circ}$ to +70 $^{\circ}$ C operation

**MODEL****Abaco Systems /
SBS / Greenspring
IP-16ADC****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****IP-16ADC****LISTING**<https://aumictechlabs.com/products/ip-16adc-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The IP-16ADC is a single-wide IndustryPack module delivering 16-bit analog-to-digital conversion with flexible input channel configuration. It accepts 16 single-ended or 8 differential input channels - channels can be mixed and paired to form differential inputs. Conversion completes in 8 microseconds with aggregate throughput up to 100,000 conversions per second. Four software-programmable input ranges (0–5 V, ± 5 V, 0–10 V, ± 10 V) accommodate diverse signal levels. On-board precision voltage reference maintains 1 ppm/°C stability and 0.01% accuracy. Basic accuracy reaches ± 1 LSB with software-triggered auto-calibration; typical ADC and amplifier accuracy is 0.002%. Input impedance is 60 M Ω . The module operates in single-conversion and continuous-conversion modes with integrated tracking-and-hold circuitry for accurate time-varying signal measurement. Rated for 0° to +70°C operation with ± 65 V input protection (powered) and ± 80 V (unpowered). IndustryPack bus operates at 8 MHz with one-cycle write latency and zero-cycle read latency. Fully supports interrupts with two requests per module. ID PROM contains calibration parameters for auto-configuration.

Technical Specifications

Resolution: 16 bits Conversion Time: 8 microseconds (standard grade) Throughput Rate: Up to 100,000 conversions per second (aggregate, single-channel driven) Input Channels: 16 single-ended or 8 differential (configurable/mixable) Input Voltage Ranges: 0–5 V, ± 5 V, 0–10 V, ± 10 V (software-selectable) Input Impedance: 60 M Ω Input Protection: ± 65 V (powered), ± 80 V (unpowered) Accuracy: ± 1 LSB (with auto-calibration); 0.002% typical (ADC + amplifier) On-board Reference: 1 ppm/°C stability, 0.01% accuracy Form Factor: Single-wide IndustryPack, 1.8 × 3.9 inches Power Supply: +5 V DC (210 mA typical, 270 mA max); ± 15 V external (45 mA typical, 70 mA max each) IndustryPack Bus: 8 MHz, one write wait state, no read wait states Interrupts: Two per module Operating Temperature: 0° to +70°C Storage Temperature: –10° to +85°C Humidity: 5% to 95% non-condensing

Key Features

- Flexible channel configuration - combine single-ended and differential inputs
- Tracking-and-hold circuit with software-controlled slew rate and accuracy
- Single-conversion and continuous-conversion modes with interrupt support
- ID PROM-based auto-calibration for gain and offset
- Solid ± 65 V input clamp protection

Compatibility & Integration

Designed for IndustryPack carrier boards including VIP627-ET, CPCI-100A-FP, and compatible Abaco Systems, SBS, and Greenspring platforms. ID PROM enables auto-configuration by host software. Note: Product status: Restricted Production Phase as of November 21, 2008.

IP16ADC Characteristics / Specifications

PARAMETER	VALUE
Model	IP-16ADC
Instrument Type	16-bit multiplexed analog input IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Single Ended Channels	16
Differential Channels	8
Adc Resolution	16 bit
Programmable Gains	1 and 1/2
Input Range Unipolar Low	0 to 5 V
Input Range Bipolar Low	plus or minus 5 V
Input Range Unipolar High	0 to 10 V
Input Range Bipolar High	plus or minus 10 V
Basic Accuracy	plus or minus 1 LSB after software auto-calibration
Conversion Time Standard	8 us
Throughput Maximum	100000 conversions per second
Conversion Modes	Single and Continuous
Completion Detect	Ready SDL bit poll or interrupt
NsN Reference	5998-01-452-3215
Carrier Interface	IndustryPack logic interface
Input Mixing	single-ended and differential dynamically mixed
Reference	on-board high precision voltage reference
Track And Hold	internal to A/D converter IC
Slew Control	software controlled tracking slew rate and accuracy
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Mezzanine Standard	ANSI VITA 4 IndustryPack

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	IP-16ADC
Instrument Type	16-bit multiplexed analog input IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Single Ended Channels	16
Differential Channels	8
Adc Resolution	16 bit
Programmable Gains	1 and 1/2
Input Range Unipolar Low	0 to 5 V
Input Range Bipolar Low	plus or minus 5 V
Input Range Unipolar High	0 to 10 V
Input Range Bipolar High	plus or minus 10 V
Basic Accuracy	plus or minus 1 LSB after software auto-calibration
Conversion Time Standard	8 us
Throughput Maximum	100000 conversions per second
Conversion Modes	Single and Continuous
Completion Detect	Ready SDL bit poll or interrupt
NsN Reference	5998-01-452-3215
Carrier Interface	IndustryPack logic interface
Input Mixing	single-ended and differential dynamically mixed
Reference	on-board high precision voltage reference
Track And Hold	internal to A/D converter IC
Slew Control	software controlled tracking slew rate and accuracy
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Mezzanine Standard	ANSI VITA 4 IndustryPack

Notes

From Greenspring SBS Abaco IP-16ADC product literature and Artisan-hosted OEM descriptions. Confirm installed grade and carrier clocking on the faceplate and carrier manual.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.