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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS / GREENSPRING

Abaco Systems / SBS / Greenspring IP-Precision-ADC 12-Bit Analog Input Module

The IP-Precision-ADC is a 12-bit analog input module designed for precision data acquisition in industrial applications. It offers high accuracy and reliable performance.

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Abaco Systems IP-Precision-ADC is a 12-bit analog input module engineered for precision data acquisition in industrial applications. This single-wide IndustryPack module delivers high-accuracy analog signal monitoring and conversion through flexible input architecture, programmable gain control, and fast conversion throughput. It integrates with compatible IndustryPack carrier boards to enable detailed signal capture and real-time processing in demanding measurement environments.

Technical Specifications

Analog Input Channels: 20 single-ended input lines; 8 differential input lines; dynamic mixing of input types supported

Resolution: 12-bit analog-to-digital converter

Programmable Gain Amplifier: Software-controlled PGA with gain range from 1 to 500

Sampling Architecture: Track and hold circuit for accurate signal acquisition

Conversion Time: Less than 14 microseconds per conversion

Throughput Rate:

Greater than 60,000 conversions per second Analog Output: Two 12-bit DAC lines for precision voltage output Form Factor: Single-wide IndustryPack moduleKey Features Instant Conversion Mode allows conversion initiation and completion within a single I/O read cycle without software driver intervention Dynamic input configuration enables mixed single-ended and differential topologies within a single application High-speed conversion throughput supports real-time, continuous sampling applications Wide programmable gain range (1× to 500×) accommodates small-signal and standard-level input sources Dual 12-bit DAC outputs provide synchronized analog reference or control signalsTypical Applications Industrial sensor signal conditioning and monitoring Multi-channel data acquisition systems Process control feedback loops requiring analog I/O integration Test and measurement systems with mixed input requirementsCompatibility & Integration The IP-Precision-ADC interfaces through the IndustryPack (IP) standard and requires a compatible IndustryPack carrier board for operation. Typical IndustryPack modules measure 1.8 inches × 3.9 inches. Carrier board power requirements typically include +5V DC and ±15V DC supplies.

IPPRECISIONADC Characteristics / Specifications

PARAMETER	VALUE
Model	IP-Precision-ADC
Alternate Names	IP-PREC-ADC IP-PRE-ADC
Instrument Type	12-bit analog input with dual DAC IndustryPack
Card Format	single wide IndustryPack ANSI VITA 4
Single Ended Inputs	20
Differential Inputs	8
Adc Resolution	12 bit
Dac Channels	2
Dac Resolution	12 bit
Programmable Gain Range	1 to 500
Conversion Time	less than 14 us
Instant Read Cycle Time	13 to 14 us
Throughput Usable	over 60000 conversions per second
Access Mode Instant	I/O space single-cycle conversion
Access Mode Pipelined	memory space with Ready bit
Input Mixing	single-ended and differential dynamically mixed
Track And Hold	provided
Part Number Example	3007410111
Module Width	single wide
Mezzanine Standard	ANSI VITA 4 IndustryPack
Carrier Interface	IndustryPack logic interface
Catalog Alias	resistive bridge driver class precision ADC
Dimensions Typical Ip	1.800 by 3.900 by 0.340 inches maximum
Logic Connector	IndustryPack logic interface

IPPRECISIONADC Specifications

PARAMETER	VALUE
Applications	Bridge and low-level sensor measurement, precision industrial DAQ, and mixed analog I/O on IndustryPack carriers.
Key Features	Twenty single-ended or eight differential 12-bit inputs
Instant and pipelined conversion access modes	Throughput over 60000 conversions per second

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	
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Notes

From Greenspring SBS Abaco IP-Precision-ADC Artisan OEM description. Exact input voltage spans at each gain belong on the OEM datasheet for the installed revision.

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

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