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Data Sheet

August 13, 2026

KEITHLEY

Keithley KPCI-3102 Low Gain Analog I/O Board

Keithley Data Acquisition Systems (DAQ). Channel: gain queue for non-sequential channel sampling wit.



MODEL

Keithley KPCI-3102

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

KPCI-3102

LISTING

<https://aumictechlabs.com/products/kpci-3102-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley KPCI-3102 is a PCI-bus data acquisition board engineered for low-gain analog input and output applications in test, measurement, process control, and automation systems. It delivers 12-bit analog input resolution at up to 225 kS/s throughput, configurable 16 single-ended or 8 differential input channels, 2 analog outputs with 16-bit resolution, 23 digital I/O lines, and 4 counter/timer channels. Technical Specifications Analog Input 16 single-ended or 8 differential channels 12-bit resolution Configurable ranges: ± 1.25 V, ± 2.5 V, ± 5 V, ± 10 V (bipolar); 0–1.25 V, 0–2.5 V, 0–5 V, 0–10 V (unipolar) Gain settings: 1, 2, 4, 8 Throughput: 225 kS/s maximum 1024-location channel-gain queue for non-sequential channel sampling with different gains Continuous paced and triggered acquisition modes Pre-trigger, post-trigger, and about-trigger support with external trigger capability Amp Low connection for pseudo-differential input referencing Analog Output 2 channels, 16-bit resolution Output ranges: ± 5 V, ± 10 V, 0–5 V, 0–10 V Outputs initialize to 0 V at power-up Digital I/O 23 total lines: two 8-bit ports (A, B) and one 7-bit port (C) Ports A and B combinable into a virtual 16-line port Scanning to 3 MHz Digital output drive: 12 mA sink, 15 mA

source Counter/Timers 4 channels, 16-bit resolution Event counting, one-shot/frequency output, frequency measurement Internal and external cascading support Key Features 68-pin Amp connector for I/O Software-configurable input ranges and gains Manual and automatic calibration utilities Bundled 32-bit DriverLINX drivers, TestPoint, LabVIEW VIs, ExceLINX, VisualSCOPE Typical Applications Data acquisition, industrial control, sensor signal conditioning, frequency measurement, and multi-channel signal routing in laboratory and field deployments. Compatibility & Integration PCI-bus interface. Operating temperature: 0°C to 70°C. Storage temperature: -25°C to 85°C. Relative humidity: up to 95% non-condensing. Board dimensions: 8.5 inches × 4.2 inches.

KPCI3102 Characteristics / Specifications

PARAMETER	VALUE
Model	KPCI-3102
Manufacturer	Keithley Instruments (MetraByte lineage)
Instrument Type	PCI multifunction data acquisition board
Alias	KPCI-3102; Keithley KPCI 3102
Host Bus	PCI
Analog Inputs	16 single ended or 8 differential
ADC Resolution	12 bit
Sample Rate	225 kHz
Input Ranges	plus/minus 10 V and 0 to 10 V
Input Gains	1, 2, 4, 8
Analog Outputs	2 channels
DAC Resolution	12 bit
Digital IO	24 bit class programmable ports plus 8 bit general purpose port
Counter Timers	4 user channels
Trigger	analog and digital; triggered scan
FIFO	onboard A/D buffering (family)
Software	DriverLINX
Related KPCI 31	12 bit, slower, fewer AO
Connector	analog/digital I/O header to STA accessory class
Upgrade Path	KPCI-3108 for 16 bit DAS-16 cabling with CAB-1284CC-2
Power	PCI slot powered
Form	full or half length PCI card class Notes Specs from Keithley KPCI-3101/3102/3103/3104 Series user manual table (KPCI-3102: 12 bit, 225 kHz, plus/minus 10 V and 0 to 10 V, 2 analog outputs). Confirm analog output population versus 3101/3103.

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.

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Specifications

PARAMETER	VALUE
FIFO	onboard A/D buffering (family)
Software	DriverLINX
Related KPCI 3101	12 bit, slower, fewer AO

Specifications

PARAMETER	VALUE
Related KPCI 3103	12 bit, 400 kHz, no AO
Related KPCI 3104	12 bit, 400 kHz, 2 AO
Connector	analog/digital I/O header to STA accessory class

Specifications

PARAMETER	VALUE
Upgrade Path	KPCI-3108 for 16 bit DAS-16 cabling with CAB-1284CC-2
Power	PCI slot powered
Form	full or half length PCI card class

Notes

Specs from Keithley KPCI-3101/3102/3103/3104 Series user manual table (KPCI-3102: 12 bit, 225 kHz, plus/minus 10 V and 0 to 10 V, 2 analog outputs). Confirm analog output population versus 3101/3103.

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.