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Data Sheet
August 2, 2026

KEITHLEY

Keithley DAS-1802HC Data Acquisition Board

Keithley Astro-Med DAS-1802HC Data Acquisition Board The Keithley DAS-1802HC (DAS1802HC) isalow-gain multifunction ISA-bus data acquisition board in the Keithley DAS-1800HC series (catalog listings may co-list Astro-Med lineage). The DAS-1802HC provides 64 single-ended or 32 differential analog inputs with 12-bit resolution, software-configurable gains of 1, 2, 4, and 8, and sampling to about 333 kS/s onasingle channel or about 312.5 kS/s when scanning multiple channels. A 1024-sample A/D FIFO and 64-entry channel/gain queue support burst and high-speed sequential or non-sequential acquisition. Two 12-bit analog outputs (±10 V class), digital I/O, external trigger/gate, and DriverLINX software support complete the multifunction design. The related DAS-1801HC is the high-gain sibling (gains 1, 5, 50, 250). The Keithley DAS-1802HC (DAS1802HC) isalow-gain multifunction ISA-bus data acquisition board in the Keithley DAS-1800HC series (catalog listings may co-list Astro-Med lineage). The DAS-1802HC provides 64 single-ended or 32 differential analog inputs with 12-bit resolution, software-configurable gains of 1, 2, 4, and 8, and sampling to about 333 kS/s onasingle channel or about 312.5 kS/s when scanning multiple channels. A 1024-sample A/D FIFO and 64-entry channel/gain queue support burst and high-speed sequential or non-sequential acquisition. Two 12-bit analog outputs (±10 V

No photo

MODEL **Keithley 1802HC**	CALIBRATION **N/A — off-catalog OEM datasheet**
CONDITION **See OEM documentation**	STATUS **Not listed on Aumictech inventory**
RFQ / SKU **1802HC**	LISTING **Off-catalog — OEM dat asheet only**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

• ISA multifunction DAQ (DAS-1800HC series) • Low-gain board: gains 1, 2, 4, 8 (DAS-1802HC) • 64 SE or 32 DIFF analog inputs; 12-bit ADC • About 333 kS/s single channel; about 312.5 kS/s scanning • 1024-sample A/D FIFO; 64-entry channel/gain queue • Two 12-bit analog outputs ±10 V • Digital I/O; external trigger and gate • DriverLINX software support • Related: DAS-1801HC high-gain; KPCI-1802HC PCI successor class

1802HC Characteristics / Specifications

PARAMETER	VALUE
Model	DAS-1802HC (DAS1802HC)
Manufacturer	Keithley (Tektronix/Keithley lineage; Astro-Med catalog co-listings)
Instrument Type	ISA multifunction data acquisition board
Host Bus	ISA (AT bus); 16-bit data transfers
Analog Inputs	64 single-ended or 32 differential; software configurable
A/D Resolution	12 bits
Input Ranges (gain 1)	±10 V, ±5 V, ±2.5 V, ±1.25 V bipolar; 0–10 V, 0–5 V, 0–2.5 V, 0–1.25 V unipolar
Scanning Throughput	about 312.5 kS/s (multiple channels, same gain)
A/D FIFO	1024 samples
Channel/Gain Queue	64 entries
Analog Outputs	2 channels; 12-bit; ±10 V
Digital I/O	digital inputs and outputs (family; see user manual pinout)
Data Transfer	DMA (channels 5/6/7) or interrupt
Software	DriverLINX
Related Model	DAS-1801HC (high gain) Standard Operating Conditions Install inacompatible ISA slot; set base address via DIP switch. Configure input mode (SE/DIFF), gain, and grounding per signal type. Use DMA mode in Windows environments for best throughput per Keithley guidance.
Low-gain board	gains 1, 2, 4, 8 (DAS-1802HC)
Related	DAS-1801HC high-gain; KPCI-1802HC PCI successor class

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	DAS-1802HC (DAS1802HC)
Manufacturer	Keithley (Tektronix/Keithley lineage; Astro-Med catalog co-listings)
Instrument Type	ISA multifunction data acquisition board
Host Bus	ISA (AT bus); 16-bit data transfers
Analog Inputs	64 single-ended or 32 differential; software configurable
A/D Resolution	12 bits

Input Gains (DAS-1802HC): 1, 2, 4, 8
Input Ranges (gain 1): ±10 V, ±5 V, ±2.5 V, ±1.25 V bipolar; 0–10 V, 0–5 V, 0–2.5 V, 0–1.25 V unipolar
Single-Channel Throughput: about 333 kS/s

Specifications

PARAMETER	VALUE
Scanning Throughput	about 312.5 kS/s (multiple channels, same gain)
A/D FIFO	1024 samples
Channel/Gain Queue	64 entries
Analog Outputs	2 channels; 12-bit; ±10 V
Digital I/O	digital inputs and outputs (family; see user manual pinout)
Data Transfer	DMA (channels 5/6/7) or interrupt
Software	DriverLINX
Related Model	DAS-1801HC (high gain)

Standard Operating Conditions
Install inacompatible ISA slot; set base address via DIP switch. Configure input mode (SE/DIFF), gain, and grounding per signal type. Use DMA mode in Windows environments for best throughput per Keithley guidance.

Operational Notes
Confirm DAS-1802HC (low gain) vs DAS-1801HC (high gain) before selecting input ranges. Catalog may show Astro-Med alongside Keithley branding. KPCI-1802HC PCI boards share the 1802HC gain set but differ in bus interface and FIFO depth (2048 on KPCI class).

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

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