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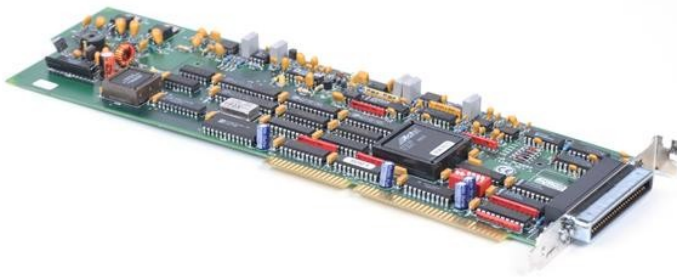
Data Sheet

August 13, 2026

KEITHLEY

Keithley DAS-1702HR / DAS-1702HRNMS Data Acquisition Board

Keithley Data Acquisition Systems (DAQ). Channel: gain queue enables high-speed sampling across non-, Resolution: ** 16-bit, Channels: ** 8 differential or 16 single-ended (software-sel.



MODEL

Keithley DAS-1702HR / DAS-1702HRNMS

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DAS-1702HR / DAS-1702HRNMS

LISTING

<https://aumictechlabs.com/products/das-1702hr-das-1702hrnms-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley DAS-1702HR / DAS-1702HRNMS is a 16-bit data acquisition board for IBM PC-compatible systems delivering gap-free, continuous acquisition at up to 50 kS/s. Engineered for precision measurement and control, it combines onboard 1K-word FIFO buffering with dual-channel DMA to capture large data volumes without interruption. The channel-gain queue enables high-speed sampling across non-sequential channels with independent gains - critical for multi-range signal monitoring. Technical Specifications Resolution: 16-bit Maximum Sampling Rate: 50 kS/s single channel; 46 kS/s aggregate (multiple channels) Analog Input Channels: 8 differential or 16 single-ended (software-selectable) Input Gains (Model 02): 1, 2, 4, 8 Input Range: ± 10 V at unity gain FIFO Buffer: 1024 locations (16-bit) DMA: 16-bit transfers; single and dual channel modes Digital I/O: 4 inputs, 4 outputs (TTL/CMOS compatible) Analog Output (DAS-1702HR-DA):

2 × 16-bit DAC, -10.0000 V to +9.999695 V DAC Linearity: ±1 LSB typical / ±2 LSB maximum integral and differential nonlinearity; 16-bit monotonic Operating Temperature: 0 to 50 °C Storage Temperature: -20 to +70 °C Humidity: 0 to 90% non-condensing Key Features Onboard FIFO and dual-channel DMA eliminate data loss during sustained acquisition Channel-gain queue permits out-of-sequence sampling and per-channel gain switching at full speed 50-pin D-type rear connector integrates analog and digital I/O Register compatibility across DAS-1700 Series ensures software portability without modification Powered from standard PC supplies: +5 V and ±12 V Typical Applications Multi-channel sensor monitoring, transducer data logging, automated test systems, real-time signal processing where gap-free acquisition and variable gain switching are mandatory. Compatibility & Integration Windows and DOS operating systems. DriverLINX support (ActiveX and DLL) enables integration with DOS and Windows programming languages. Installation Category I and II per IEC 60664.

DAS1702HRDAS1702HRNMS Characteristics / Specifications

PARAMETER	VALUE
Model	DAS-1702HR
Manufacturer	Keithley Instruments (MetraByte)
Instrument Type	ISA 16 bit high resolution data acquisition board
Alias	DAS-1702HR; DAS1702HR
Host Bus	ISA
Analog Inputs	16 single ended or 8 differential
ADC Resolution	16 bit
Sample Rate	100 kS/s
Input Gains	1, 2, 4, 8 (low gain HR)
Related High Gain	DAS-1701HR
Related Predecessor	DAS-HRES
Related 12 Bit	DAS-1602
Related PCI	KPCI-3108
Analog Outputs	family AO channels (confirm populated)
Digital IO	DAS-1700 family
FIFO	onboard A/D buffering family
Software	DriverLINX
Connector	DAS-style analog/digital
Base Address	switch
DMA	supported
Form	full length ISA class
Input Range Gain	plus/minus 10 V / 0 to 10 V class
Trigger	analog/digital family Notes Specs from Keithley DAS-1700HR family (DAS-1702HR low-gain 16-bit 100 kS/s, 16 SE/8 DIFF). Confirm 1702HR versus 1701HR high-gain and analog-output population.

DAS1702HRDAS1702HRNMS Specifications

PARAMETER	VALUE
Applications	16-bit 100 kS/s ISA acquisition
Key Features	16-bit versus 12-bit DAS-1602
DriverLINUX	Path to KPCI-3108
Technical Specifications	Model: DAS-1702HR

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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Related High Gain	DAS-1701HR
Related Predecessor	DAS-HRES
Related 12 Bit	DAS-1602
Specifications	
PARAMETER	VALUE
Related PCI	KPCI-3108
Analog Outputs	family A0 channels (confirm populated)
Digital IO	DAS-1700 family

Specifications

PARAMETER	VALUE
FIFO	onboard A/D buffering family
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Connector	DAS-style analog/digital

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Specs from Keithley DAS-1700HR family (DAS-1702HR low-gain 16-bit 100 kS/s, 16 SE/8 DIFF). Confirm 1702HR versus 1701HR high-gain and analog-output population.

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.