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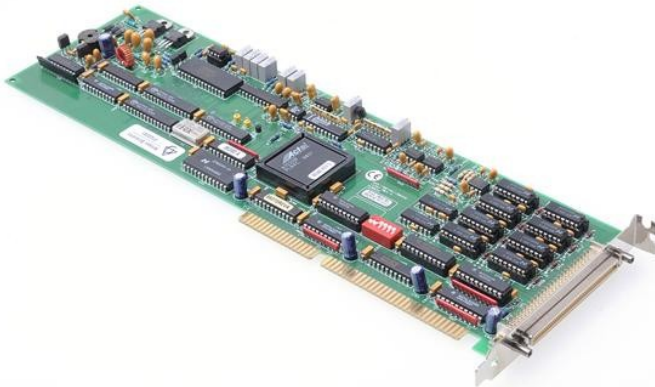
Data Sheet

August 13, 2026

KEITHLEY

Keithley DAS-HRES Multifunction 16-Bit Analog and Digital I/O

Keithley Data Acquisition Systems (DAQ). Accuracy: $\pm 0.003\%$, Channel: uncommitted 16-bit binary counter.



MODEL

Keithley DAS-HRES

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DAS-HRES

LISTING

<https://aumictechlabs.com/products/das-hres-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley DAS-HRES is a 16-bit multifunction analog and digital I/O board for precision measurement and control in IBM PC/XT/AT and PS/2 compatible computers. It delivers high-resolution data acquisition with eight differential analog input channels, two analog output channels, and digital I/O capabilities, supported by onboard programmable timing functions. Technical Specifications Analog Input 8 differential channels (HI/LO/GND) 16-bit resolution 47.6 kS/s maximum conversion rate Switch-selectable unipolar ranges: 0–10V, 5V, 2.5V, 1.25V Switch-selectable bipolar ranges: $\pm 10V$, $\pm 5V$, $\pm 2.5V$, $\pm 1.25V$ Programmable gains: 1, 2, 4, and 8 Absolute accuracy (autocalibration enabled): $\pm 0.0003\%$ FS ± 1 bit (gains 1, 2, 4); $\pm 0.0045\%$ FS ± 1 bit (gain 8) Absolute accuracy (autocalibration disabled): $\pm 0.01\%$ FS ± 1 bit Relative accuracy: $\pm 0.003\%$ Analog Output 2 channels, 16-bit resolution $\pm 10V$ standard voltage output Digital I/O 8-bit output port 8-bit input port Counter/Timers Intel 8254 onboard 3-channel programmable interval timer

Two channels fixed divider configuration from internal 1, 8, or 10 MHz crystal clock Third channel: uncommitted 16-bit binary counter Clock input frequency: DC to 10 MHz Negative active count edge Minimum clock pulse widths: 30 ns high / 50 ns low System Interface Direct IBM PC/XT/AT and PS/2 model 25/30 I/O slot insertion DMA switch-selectable for levels 1 or 3 Software-selectable interrupts: levels 2 through 7 Power consumption: +5V at 1.4 A typical (1.9 A maximum) Key Features Autocalibration capability reduces absolute accuracy uncertainty to $\pm 0.0003\%$ FS at standard gains Tri-stated DMA and interrupt lines enable resource sharing with compatible peripherals BASIC mode call driver and external DAS driver support (VIEWDAC, EASYEST LX/AG, ASYST) Operating temperature: 0°C to 50°C Compact form factor: 13.3 in L $\times$ 4.25 in H $\times$ 0.75 in D Typical Applications Precision laboratory measurement, research and development, industrial process control, and automated test systems requiring 16-bit data acquisition with multiple I/O channels in legacy computer platforms. Compatibility & Integration Designed for PC-based systems with available I/O slots. DMA and interrupt resource sharing accommodates multi-peripheral configurations. Software integration via Mode Call Driver and support for industry standard MetraByte data acquisition software.

DASHRES Characteristics / Specifications

PARAMETER	VALUE
Model	DAS-HRES
Manufacturer	Keithley MetraByte
Instrument Type	ISA 16 bit high resolution data acquisition board
Alias	DAS-HRES; DASHRES
Host Bus	ISA
ADC Resolution	16 bit
Analog Inputs	8 differential (16 SE class on some HRES revisions)
Input Gains	1, 2, 4, 8 class
Sample Rate Class	50 to 100 kS/s depending on revision
Related Successor	DAS-1702HR 16 bit, 100 kS/s, 16 SE / 8 DIFF
Related PCI	KPCI-3108 16 bit
Digital IO	DAS family digital lines
DMA	supported class
Connector	DAS-style analog header
Base Address	DIP/jumper
Software	DriverLINX / DAS-HRES
Form	full length ISA class
Input Range Gain	plus/minus 10 V class
Unipolar	jumper/software family
Trigger	analog/digital family
Noise Class	16 bit converter (use shielded STA)
Resolution Bits	16
Software Path	DAS family mode calls then DriverLINX Notes Identity from Keithley/MetraByte DAS-HRES high-resolution DAS catalogs. Exact channel count and kS/s belong on the installed board manual; DAS-1702HR is the documented 16-bit 100 kS/s follow-on. Confirm silkscreen DAS-HRES versus 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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Specifications

PARAMETER	VALUE
Software	DriverLINX / DAS-HRES
Form	full length ISA class
Input Range Gain 1	plus/minus 10 V class

Specifications

PARAMETER	VALUE
Unipolar	jumper/software family
Trigger	analog/digital family
Noise Class	16 bit converter (use shielded STA)

Resolution Bits: 16

Software Path: DAS family mode calls then DriverLINX

Notes

Identity from Keithley/MetraByte DAS-HRES high-resolution DAS catalogs. Exact channel count and kS/s belong on the installed board manual; DAS-1702HR is the documented 16-bit 100 kS/s follow-on. Confirm silkscreen DAS-HRES versus DAS-1702HR.

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.