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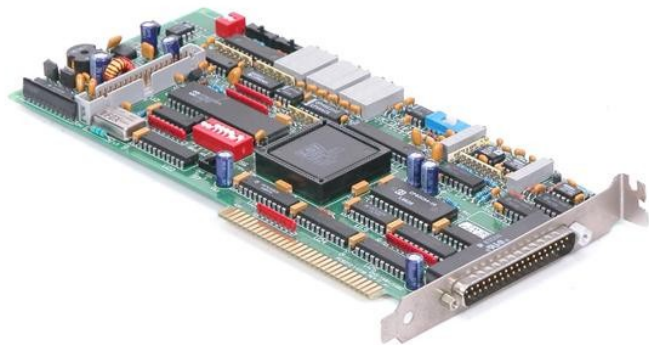
Data Sheet

August 13, 2026

KEITHLEY

Keithley DAS-1601 12-Bit Multifunction Board

Keithley Data Acquisition Systems (DAQ). Resolution: 12 bits, Channels: 16 single-ended or 8 differential, Current: 250 nA max (125 nA typical) @ 25°C.



MODEL

Keithley DAS-1601

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DAS-1601

LISTING

<https://aumictechlabs.com/products/das-1601-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley DAS-1601 is a 12-bit multifunction data acquisition board for IBM PC/XT/AT and compatible computers. It has analog input and output, digital I/O, and high-speed DMA transfer capabilities for rapid data acquisition and control tasks. Technical Specifications Analog Input Resolution: 12 bits Channels: 16 single-ended or 8 differential Input ranges: Unipolar 0 to +10V, 0 to +1V, 0 to +100mV, 0 to +20mV; Bipolar $\pm 10V$, $\pm 1V$, $\pm 100mV$, $\pm 20mV$ Programmable gains: 1, 10, 100, 500 Maximum sampling rate: 100 kS/s Input impedance: $>25\text{ M}\Omega$ Input current: 250 nA max (125 nA typical) @ 25°C Overvoltage protection: $\pm 35V$ max (powered); $\pm 20V$ unpowered Temperature coefficient: Gain drift $\pm 50\text{ ppm}/^\circ\text{C}$ max; Zero drift $\pm 10\text{ }\mu\text{V}/^\circ\text{C}$ $\pm 200\text{ }\mu\text{V}/\text{gain}$ (bipolar) or $\pm 10\text{ }\mu\text{V}/^\circ\text{C}$ $\pm 50\text{ }\mu\text{V}/\text{gain}$ (unipolar) Analog Output Channels: 2 Resolution: 12 bits Conversion time: 8 μs max (7.5 μs typical) Settling time: 20 μs to 0.01% Linearity: $\pm 1/2$ bit Monotonicity: Guaranteed Output drive current: $\pm 5\text{ mA}$ max Output impedance: $<0.1\text{ }\Omega$ Digital I/O Lines: 32 TTL output drive: LOW 0.5V max @ 8.0 mA; HIGH 2.4V min @ -0.4 mA TTL input thresholds: LOW 0.8V max; HIGH 2.0V min Key Features ISA bus interface for direct system integration Burst mode

timing emulates simultaneous sample-and-hold High-speed DMA transfer support PIO-12 board compatibility Noise performance: 1 count p-p / 0.1 counts rms at gains 1 and 10; 2 counts p-p / 0.2 counts rms at gain 100 Typical Applications Product testing and quality assurance Process monitoring and control Research and development data acquisition Multi-channel analog measurement systems Compatibility & Integration Supports DAS-1600 External Driver and DriverLINX software drivers for Windows 95/98 (ActiveX and DLL-based interfaces).

DAS1601 Characteristics / Specifications

PARAMETER	VALUE
Model	DAS-1601
Manufacturer	Keithley Instruments (MetraByte)
Instrument Type	ISA high gain analog and digital I/O board
Alias	DAS-1601; DAS1601
Host Bus	ISA PC/XT AT
Analog Inputs	16 single ended or 8 differential
ADC Resolution	12 bit
Sample Rate	100 kS/s
Input Gains	1, 10, 100, 500 (high gain)
Bipolar Span Gain	plus/minus 10 V
Unipolar Span Gain	0 to 10 V
Analog Outputs	2
Digital IO	24 lines
Counters	timer/counter subsystem family
DMA	switch selectable channel
Base Address	switch 16-byte boundaries
Interrupts	software configurable
Software	DriverLINX
Related Low Gain	DAS-1602 gains 1, 2, 4, 8
Related No AO	DAS-1401
Related Predecessor	DAS-16G1
Connector	37 pin DAS-16 compatible class
Form	full length ISA class

PARAMETER	VALUE
Gain Note	per-channel software programmable Notes Specs from Keithley DAS-1600/1400 Series User Guide (DAS-1601 high gain 1/10/100/500, 16 SE/8 DIFF, 100 kS/s, 12 bit, two AO). Confirm DAS-1601 versus DAS-1602 before applying millivolt sensors.

DAS1601 Specifications

PARAMETER	VALUE
Applications	Low-level transducer acquisition at gains 10 to 500
ISA 100 kS/s systems DAQ	DAS-16G1 upgrade with DriverLINX
Key Features	High-gain PGA 1/10/100/500
Technical Specifications	Model: DAS-1601

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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PARAMETER	VALUE
ADC Resolution	12 bit
Sample Rate	100 kS/s
Input Gains	1, 10, 100, 500 (high gain)
Specifications	
PARAMETER	VALUE
Bipolar Span Gain 1	plus/minus 10 V
Unipolar Span Gain 1	0 to 10 V
Analog Outputs	2
Specifications	
PARAMETER	VALUE
Digital IO	24 lines
Counters	timer/counter subsystem family
DMA	switch selectable channel

Specifications

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Notes

Specs from Keithley DAS-1600/1400 Series User Guide (DAS-1601 high gain 1/10/100/500, 16 SE/8 DIFF, 100 kS/s, 12 bit, two AO). Confirm DAS-1601 versus DAS-1602 before applying millivolt sensors.

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

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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.