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Data Sheet

August 13, 2026

KEITHLEY

Keithley DAS-1802ST-DA 12-Bit Multifunction I/O Board

Applications ISA PC analog acquisition with analog stimulus Automated test with simultaneous analog output Burst-mode sampling with FIFO Legacy DAS-16 replacement at higher sample rate Key Features DA suffix adds analog outputs versus ST-only boards Low-gain ST set (1, 2, 4, 8) versus 1801 high-gain 1024-sample A/D FIFO and 64-entry channel/gain queue class DMA and interrupt data transfer DriverLINX software Technical Specifications Model: DAS-1802ST-DA Manufacturer: Keithley Instruments (MetraByte / Astro-Med catalog co-listings) Instrument Type: ISA multifunction data acquisition board with analog outputs Alias: DAS-1802ST-DA; DAS1802STDA Host Bus: ISA AT 16 bit Analog Inputs: 16 single ended or 8 differential ADC Resolution: 12 bit Input Gains: 1, 2, 4, 8 (ST low gain) Input Ranges Gain 1: plus/minus 10 V, plus/minus 5 V, plus/minus 2.



MODEL

Keithley DAS-1802ST-DA

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DAS-1802ST-DA

LISTING

<https://aumictechlabs.com/products/das-1802st-da-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley DAS-1802ST-DA is a 12-bit multifunction I/O board engineered for real-time data acquisition and process control across laboratory, industrial automation, and monitoring environments. This PCI/ISA/PCMCIA form-factor instrument combines configurable analog input

and output channels with discrete digital I/O, delivering continuous, gap-free acquisition at sampling rates up to 333 kS/s aggregate. Technical Specifications Analog Input 16 single-ended or 8 differential channels 12-bit resolution Maximum aggregate sampling rate: 333 kS/s (312.5 kS/s multi-channel) Programmable gains: 1, 2, 4, 8 Input ranges: ± 10 V, ± 5 V, ± 2.5 V, ± 1.25 V, 0–10 V, 0–5 V, 0–2.5 V, 0–1.25 V 1024-word FIFO buffer 256-position gain-channel queue for rapid range switching Analog Output 2 channels, 12-bit resolution Output ranges: ± 5 V, ± 10 V (software programmable) D/A update speed: 500 kS/s Output drive current: ± 15 mA max Digital I/O 4 digital inputs and 4 digital outputs 50-pin D-type connector interface Key Features Programmable burst-mode sampling emulates simultaneous sample-and-hold across multiple channels. Pre-, post-, and about-triggering modes enable flexible data capture around events of interest. The 256-entry gain-channel queue eliminates settling delays when switching between different input ranges and gains during high-speed acquisition. Typical Applications Multi-channel sensor monitoring in industrial process control, waveform capture and transient analysis in research laboratories, precision analog control loops, and mixed-signal test automation. Compatibility & Integration Optimized for Windows operating systems. Supplied with 32-bit DriverLINX® drivers and application software including ExcelINX™, VisualSCOPE™, TestPoint™, and LabVIEW™ support.

DAS1802STDA Characteristics / Specifications

PARAMETER	VALUE
Model	DAS-1802ST-DA
Manufacturer	Keithley Instruments (MetraByte / Astro-Med catalog co-listings)
Instrument Type	ISA multifunction data acquisition board with analog outputs
Alias	DAS-1802ST-DA; DAS1802STDA
Host Bus	ISA AT 16 bit
Analog Inputs	16 single ended or 8 differential
ADC Resolution	12 bit
Input Gains	1, 2, 4, 8 (ST low gain)
Input Ranges Gain	plus/minus 10 V, plus/minus 5 V, plus/minus 2.5 V, plus/minus 1.25 V bipolar; 0 to 10 V unipolar class
Single Channel Throughput	about 333 kS/s
Scanning Throughput	about 312.5 kS/s class (multiple channels, same gain)
AD FIFO	1024 samples
Channel Gain Queue	64 entries
Analog Outputs	2 channels (DA suffix)
DAC Resolution	12 bit
DAC Span	plus/minus 10 V class
Digital IO	digital inputs and outputs (family pinout)
Data Transfer	DMA (channels 5/6/7) or interrupt
Software	DriverLINX
Related High Gain	DAS-1801ST (gains 1, 5, 50, 250 class)
Related High Channel	DAS-1802HC 64 SE / 32 DIFF
Related PCI	KPCI-1802HC
Form	full length ISA class Notes Specs from Keithley DAS-1800ST/HC family manuals and DAS-1802HC low-gain table. Confirm ST (16/8 channels) versus HC (64/32) and that analog outputs are populated (DA suffix).

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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Related High Channel	DAS-1802HC 64 SE / 32 DIFF

Related PCI: KPCI-1802HC

Form: full length ISA class

Notes

Specs from Keithley DAS-1800ST/HC family manuals and DAS-1802HC low-gain table. Confirm ST (16/8 channels) versus HC (64/32) and that analog outputs are populated (DA suffix).

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.