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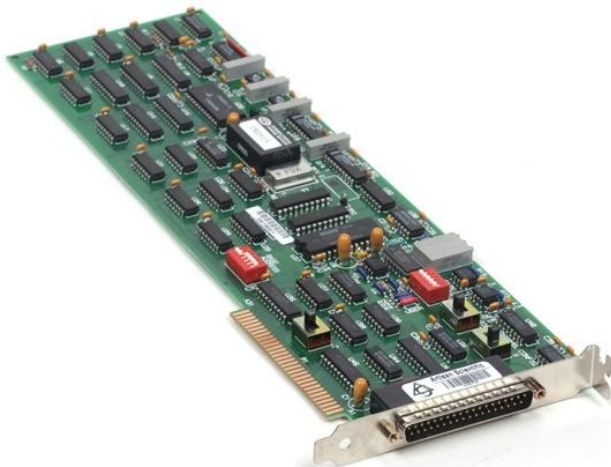
**Data Sheet**

August 13, 2026

KEITHLEY / METRABYTE

# Keithley / MetraByte DAS-16F Plug-In Data Acquisition Board

The Keithley/MetraByte DAS-16F is a plug-in data acquisition board designed for IBM PC/XT/AT and compatible computers. It provides 16 single-ended or 8 differential analog input channels, 12-bit resolution, and a maximum sampling rate of 100 kHz. It also features two analog output channels, digital I/O, and counter/timer capabilities, making it suitable for a variety of data acquisition and control applications.



MODEL

**Keithley /  
MetraByte DAS-  
16F**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**DAS-16F**

LISTING

[https://aumictechlabs.c  
om/products/das-16f-2/](https://aumictechlabs.com/products/das-16f-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Keithley/MetraByte DAS-16F is an ISA-bus plug-in data acquisition board that converts IBM PC/XT/AT and compatible computers into high-speed measurement instruments. It delivers 16 single-ended or 8 differential analog input channels with 12-bit resolution, 100 kHz maximum sampling rate, and programmable gain amplification from 0.5× to 10×. The board integrates two 12-bit D/A outputs, eight digital I/O lines, and a 3-channel programmable interval timer for precise timing and control. Switch-selectable input ranges support both unipolar and bipolar configurations, while external references enable custom output ranges. Bundled 16-bit DriverLINX drivers support Visual Basic, C/C++, and Delphi with DLL and ActiveX interfaces, ensuring

compatibility with existing applications and TestPoint development environments. Technical Specifications Analog Inputs: 16 single-ended or 8 differential channels Input Resolution: 12-bit (1/4096 full scale) Sample & Hold: 2  $\mu$ s Gain Settings: 0.5 $\times$ , 1 $\times$ , 2 $\times$ , 5 $\times$ , 10 $\times$  A/D Converter: 774-based Maximum Sampling Rate: 100 kHz (100,000 samples/second) Multichannel Rate: 100 kHz  $\div$  number of active channels Analog Outputs: Two 12-bit D/A channels (multiplying type) D/A Output Range: 0 V to +5 V (standard),  $\pm$ 10 V with external reference D/A Transfer: Program and interrupt capable (no DMA) Digital I/O: 4 input, 4 output lines Counter/Timer: Intel 8254 (3-channel programmable interval timer) Timer Resolution: 1  $\mu$ s (X1) or 0.1  $\mu$ s (X10) Frequency Output Range: 2.5 MHz to 1 pulse per hour Power Supply: +5 V @ 800 mA typical / 1 A max; +12 V @ 13.5 mA typical / 18 mA max; -12 V @ 23.5 mA typical / 31 mA max Key Features Full-length ISA board with multilayer construction Switch-selectable unipolar (0 to 10 V) and bipolar ( $\pm$ 10 V) input ranges Onboard -5 V reference for standard D/A output Digital lines control multiplexers, monitor external status, and gate timing circuits Compatible with VIEWDAC, EASYEST LX, EASYEST AG, and ASYST software packages Typical Applications High-speed data logging and process monitoring Real-time control systems requiring synchronized analog and digital signals Laboratory instrument interfacing via ISA expansion Frequency and pulse generation with programmable timing Compatibility & Integration Requires ISA-bus expansion slot in IBM PC/XT/AT-compatible host. DriverLINX drivers enable rapid application development in Visual Basic, C/C++, and Delphi. Integrates with TestPoint application development package.

## DAS16F Characteristics / Specifications

| PARAMETER         | VALUE                                                                                                                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model             | DAS-16F                                                                                                                                                                                                                                           |
| Manufacturer      | Keithley MetraByte                                                                                                                                                                                                                                |
| Instrument Type   | ISA 16 channel 100 kHz analog input board                                                                                                                                                                                                         |
| Alias             | DAS-16F; DAS16F                                                                                                                                                                                                                                   |
| Host Bus          | ISA                                                                                                                                                                                                                                               |
| Analog Inputs     | 16 single ended or 8 differential                                                                                                                                                                                                                 |
| ADC Resolution    | 12 bit                                                                                                                                                                                                                                            |
| Sample Rate       | 100 kHz                                                                                                                                                                                                                                           |
| Converter Class   | 774 (faster than 674 on 50 kHz DAS-16)                                                                                                                                                                                                            |
| Digital Inputs    | 4                                                                                                                                                                                                                                                 |
| Digital Outputs   | 4                                                                                                                                                                                                                                                 |
| Connector         | 37 pin DAS-16 compatible                                                                                                                                                                                                                          |
| DMA               | supported                                                                                                                                                                                                                                         |
| Gain Select       | jumper (G1 high gain 1/10/100/500; G2 low gain 1/2/4/8 on DAS-16G family)                                                                                                                                                                         |
| Related 50 kHz    | DAS-16                                                                                                                                                                                                                                            |
| Related PGA AO    | DAS-1601 / DAS-1602                                                                                                                                                                                                                               |
| Related PCI       | KPCI-3108 plus STA-3108-A2 plus CAB-1284CC-2                                                                                                                                                                                                      |
| Base Address      | DIP/jumper                                                                                                                                                                                                                                        |
| Interrupts        | jumper                                                                                                                                                                                                                                            |
| Software          | DAS-16 mode calls; DriverLINX class                                                                                                                                                                                                               |
| Form              | full length ISA class                                                                                                                                                                                                                             |
| Input Range Class | plus/minus 10 V bipolar jumper family                                                                                                                                                                                                             |
| Throughput Note   | 100 kHz rated with 774 ADC Notes Specs from Keithley DAS-16 series upgrade FAQ (DAS-16F 100 kHz uses 774; DAS-16 50 kHz uses 674; 16 SE/8 DIFF, 4 DI, 4 DO). Confirm G1 versus G2 gain jumpers and versus DAS-1602 programmable-gain replacement. |

# DAS16F Specifications

| PARAMETER                | VALUE                        |
|--------------------------|------------------------------|
| Applications             | 100 kHz ISA waveform capture |
| Key Features             | 100 kHz versus 50 kHz DAS-16 |
| Technical Specifications | Model: DAS-16F               |

# 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-16F                                                                   |
| Manufacturer    | Keithley MetraByte                                                        |
| Instrument Type | ISA 16 channel 100 kHz analog input board                                 |
| Specifications  |                                                                           |
| PARAMETER       | VALUE                                                                     |
| Alias           | DAS-16F; DAS16F                                                           |
| Host Bus        | ISA                                                                       |
| Analog Inputs   | 16 single ended or 8 differential                                         |
| Specifications  |                                                                           |
| PARAMETER       | VALUE                                                                     |
| ADC Resolution  | 12 bit                                                                    |
| Sample Rate     | 100 kHz                                                                   |
| Converter Class | 774 (faster than 674 on 50 kHz DAS-16)                                    |
| Specifications  |                                                                           |
| PARAMETER       | VALUE                                                                     |
| Digital Inputs  | 4                                                                         |
| Digital Outputs | 4                                                                         |
| Connector       | 37 pin DAS-16 compatible                                                  |
| Specifications  |                                                                           |
| PARAMETER       | VALUE                                                                     |
| DMA             | supported                                                                 |
| Gain Select     | jumper (G1 high gain 1/10/100/500; G2 low gain 1/2/4/8 on DAS-16G family) |
| Related 50 kHz  | DAS-16                                                                    |

### Specifications

| PARAMETER      | VALUE                                        |
|----------------|----------------------------------------------|
| Related PGA A0 | DAS-1601 / DAS-1602                          |
| Related PCI    | KPCI-3108 plus STA-3108-A2 plus CAB-1284CC-2 |
| Base Address   | DIP/jumper                                   |

### Specifications

| PARAMETER  | VALUE                               |
|------------|-------------------------------------|
| Interrupts | jumper                              |
| Software   | DAS-16 mode calls; DriverLINX class |
| Form       | full length ISA class               |

Input Range Class: plus/minus 10 V bipolar jumper family

Throughput Note: 100 kHz rated with 774 ADC

Notes

Specs from Keithley DAS-16 series upgrade FAQ (DAS-16F 100 kHz uses 774; DAS-16 50 kHz uses 674; 16 SE/8 DIFF, 4 DI, 4 DO). Confirm G1 versus G2 gain jumpers and versus DAS-1602 programmable-gain replacement.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.