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**Data Sheet**

August 1, 2026

## INDUSTRIAL COMPUTER PCI

# Industrial Computer PCI DAS1601/1602

Industrial / Measurement Computing PCI DAS1601 / DAS1602 Data Acquisition Boards Catalog title "Industrial Computer PCI DAS1601/1602" refers to the ComputerBoards / Measurement Computing DAS1601 and DAS1602 multifunction analog and digital I/O board family used in industrial PC data acquisition. The classic ISA-bus models are CIO-DAS1601/12 and CIO-DAS1602/12 (plus CIO-DAS1602/16). The PCI-bus successors commonly sold for modern industrial PCs are PCI-DAS1602/12 and PCI-DAS1602/16. DAS1601 and DAS1602 share the same connector and software architecture but differ in programmable analog input gain ranges: DAS1601 emphasizes fine low-level ranges (down to +/-0.01 V), while DAS1602 uses decade-halving ranges from +/-10 V to +/-1.25 V. Catalog title "Industrial Computer PCI DAS1601/1602" refers to the ComputerBoards / Measurement Computing DAS1601 and DAS1602 multifunction analog and digital I/O board family used in industrial PC data acquisition. The classic ISA-bus models are CIO-DAS1601/12 and CIO-DAS1602/12 (plus CIO-DAS1602/16). The PCI-bus successors commonly sold for modern industrial PCs are PCI-DAS1602/12 and PCI-DAS1602/16. DAS1601 and DAS1602 share the same connector and software architecture but differ in programmable analog input gain ranges: DAS1601 emphasizes fine low-level ranges (down to +/-0.01 V), while DAS1602 uses decade-halving ranges from +/-10 V to +/-1.25 V

No photo

## MODEL

**Industrial  
Computer PCI  
DAS1601**

## CALIBRATION

**N/A — off-catalog  
OEM datasheet**

## CONDITION

**See OEM  
documentation**

## STATUS

**Not listed on  
Aumictech  
inventory**

## RFQ / SKU

**DAS1601**

## LISTING

**Off-catalog — OEM dat  
asheet only**

NIST-traceable cal

SAM registered

30-day returns



## Features & description

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From manufacturer datasheet

### Features

- 16 single-ended or 8 differential analog inputs • Dual analog outputs • 24 bits digital I/O • Three 16-bit counter/timers (82C54 class) • Programmable gain • Compatible with Measurement Computing InstaCal / Universal Library software ecosystems • ISA (CIO-DAS160x) and PCI (PCI-DAS1602) form factors in the family

# DAS1601 Characteristics / Specifications

| PARAMETER                | VALUE                                                              |
|--------------------------|--------------------------------------------------------------------|
| Technical Specifications | CIO-DAS1602/12 and CIO-DAS1602/16 (ISA)                            |
| Resolution               | 12-bit (1602/12) or 16-bit (1602/16)                               |
| A/D Type                 | ADS7800 successive approximation class                             |
| Bipolar Ranges           | +/-10 V, +/-1 V, +/-0.1 V, +/-0.01 V                               |
| Unipolar Ranges          | 0-10 V, 0-1 V, 0-0.1 V, 0-0.01 V                                   |
| Analog Outputs           | 2 channels, 12-bit; ranges +/-10 V, +/-5 V, 0-5 V, 0-10 V (jumper) |
| Digital I/O              | 24 bits                                                            |
| Counters                 | three 16-bit                                                       |
| Connector                | 37-pinDanalog                                                      |

# 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

| PARAMETER       | VALUE                                                              |
|-----------------|--------------------------------------------------------------------|
| Specifications  | CIO-DAS1601/12 (ISA)                                               |
| Resolution      | 12 bits                                                            |
| A/D Type        | ADS7800 successive approximation class                             |
| Bipolar Ranges  | +/-10 V, +/-1 V, +/-0.1 V, +/-0.01 V                               |
| Unipolar Ranges | 0-10 V, 0-1 V, 0-0.1 V, 0-0.01 V                                   |
| Analog Outputs  | 2 channels, 12-bit; ranges +/-10 V, +/-5 V, 0-5 V, 0-10 V (jumper) |
| Digital I/O     | 24 bits                                                            |
| Counters        | three 16-bit                                                       |

Burst Rate (12-bit family): about 4 us / 250 kHz class between burst samples

Power (+5 V): about 1.4 A typical, 2.1 A max

## Specifications

| PARAMETER                | VALUE                                   |
|--------------------------|-----------------------------------------|
| Connector                | 37-pinDanaalog                          |
| Technical Specifications | CIO-DAS1602/12 and CIO-DAS1602/16 (ISA) |
| Resolution               | 12-bit (1602/12) or 16-bit (1602/16)    |
| Bipolar Ranges           | +/-10 V, +/-5 V, +/-2.5 V, +/-1.25 V    |
| Unipolar Ranges          | 0-10 V, 0-5 V, 0-2.5 V, 0-1.25 V        |

CIO-DAS1602/16 Burst: about 10 us / 100 kHz class

Technical Specifications – PCI-DAS1602/12 and PCI-DAS1602/16 (PCI)

PCI-DAS1602/12: 12-bit AI; sample rates up to about 330 kHz; dual 12-bit AO up to about 250 kHz; 24 DIO; three 16-bit counters; 100-pin connector

PCI-DAS1602/16: 16-bit AI; sample rates up to 200 kHz; dual 16-bit AO up to 100 kHz; 24 high-drive DIO; three 16-bit counters; 512-sample FIFO; software-selectable bipolar/unipolar ranges matching DAS1602 (+/-10, +/-5, +/-2.5, +/-1.25 V and 0-10/5/2.5/1.25 V); analog and digital triggering

Standard Operating Conditions

Install with PC power off. Configure gain/polarity per board type before acquiring. Use shielded cabling for low-level DAS1601 ranges. Calibrate with InstaCal or equivalent.

Operational Notes

There is no widely published "PCI-DAS1601" SKU identical to CIO-DAS1601; industrial listings for "PCI DAS1601/1602" typically mean the DAS1601/1602 family including PCI-DAS1602 boards. Confirm ISA vs PCI edge connector and 1601 vs 1602 gain set from the board silkscreen before quoting ranges.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.