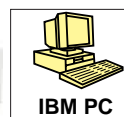
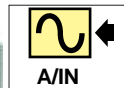
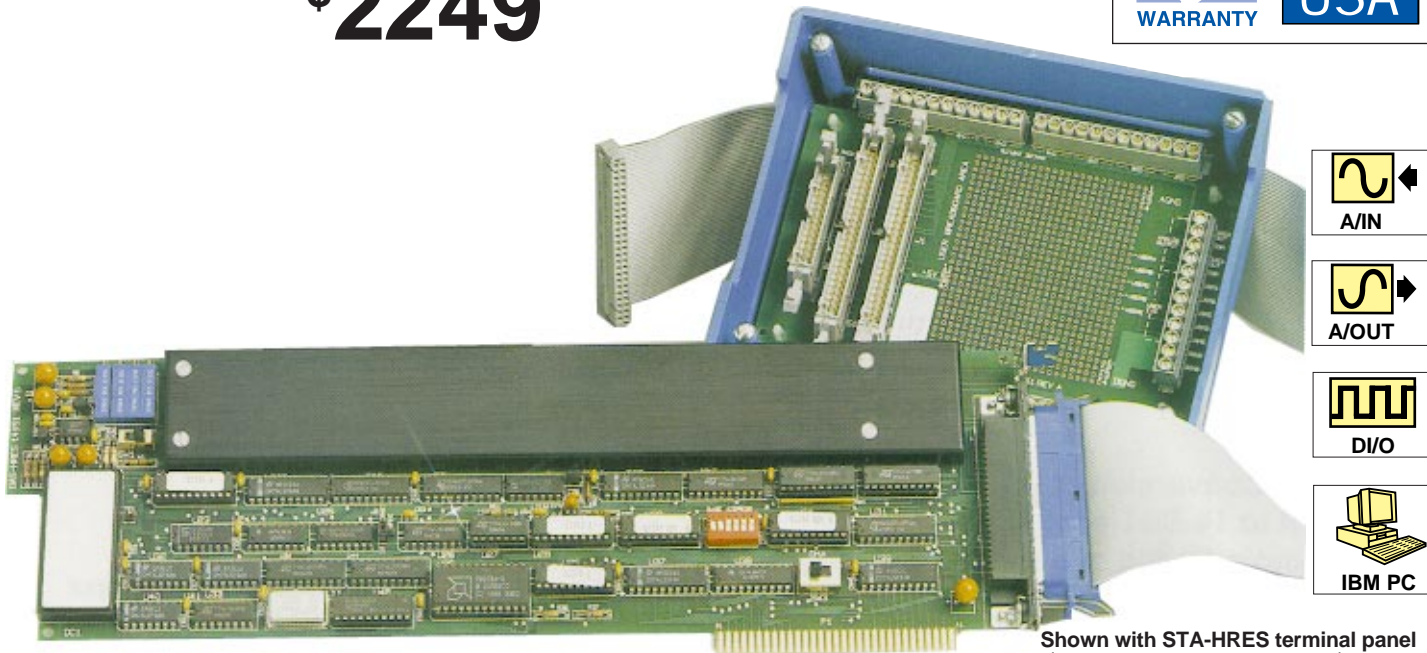


DAS-HRES

16 Bit, High Resolution A/D Interface

For IBM PC/XT/AT and Compatibles

\$2249



Shown with STA-HRES terminal panel (\$120) and CDAS-2000 cable (\$30).

- 16 Bit Measurement Resolution
- 8 Full Differential Input Channels
- 2 Channels of 16 Bit Analog Output
- 3 Counter/Timers
- Software Selectable Gains 1, 2, 4 and 8
- 8 Bits Digital I/O
- 47.6 kHz Throughput

The DAS-HRES is a multi-function, high resolution (16-bit) analog/digital I/O board designed for IBM personal computers and compatibles. The DAS-HRES plugs directly into any I/O slot of an IBM PC/AT/XT or IBM PS/2 model 25/30 or compatible computers.

The DAS-HRES offers 8 fully differential input channels, plus two channels of analog output at 16 bits resolution. In addition, the DAS-HRES offers 8 bits of digital I/O, three counter/timers and switch selectable unipolar and bipolar input ranges. It has an interrupt source and offers software-driven calibration, in addition to traditional gain adjustments.

Included with the DAS-HRES are driver routines callable from BASIC,

as well as test and calibration programs. While the DAS-HRES is software compatible with the DAS-16G to the register level, the output connector is compatible with the DAS-20.

Specifications

Channels: 8 differential
Resolution: 16 bits
Absolute Accuracy (Autocalibration Enabled): Gains of 1, 2, 4 0.003% full scale range ± 1 bit; Gain of 8 0.0045% of full scale range ± 1 bit

Accuracy with Autocalibration Disabled: $\pm 0.01\%$ of FSR, ± 1 bit

Overvoltage: Continuous single channel to ± 35 V

Input Impedance: > 100 Mohms

A/D SPECIFICATIONS

Type: Successive approximation

Resolution: 16 bits

Conversion Rate: 47.6 kHz max.

D/A CONVERTERS

Channels: 2 independent

Type: 16 bit double buffered

Linearity: 0.006% full scale range

Output Range: ± 10 V

Settling Time: 180 μ sec to 0.01% for full scale step

DIGITAL I/O

Output Port: 8 bits

Input Port & Trigger: 8 bits
Compatibility: TTL/CMOS

Counters: 3 down counters, 16 bit.
2 permanently connected to 1/10 MHz clock as programmable timer.
1 counter free

GENERAL ENVIRONMENTAL
Operating Temp.: 0 to 50°C (32 to 122°F)

Storage Temp.: -20 to +70°C

Relative Humidity: 0 to 90% non-condensing

Weight: 270 g (9 oz.)

To Order (*Specify Model No.*)

Model No.	Price	Description
DAS-HRES	\$2249	High resolution multi-function board
STA-HRES	120	Terminal panel (requires CDAS-2000 cable, see below)
CDAS-2000	30	Cable

Comes with complete operator's manual and utility software.

Ordering Example: DAS-HRES high resolution multifunction board, STA-HRES terminal panel, plus CDAS-2000 cable, \$2249 + 120 + 30 = \$2399.