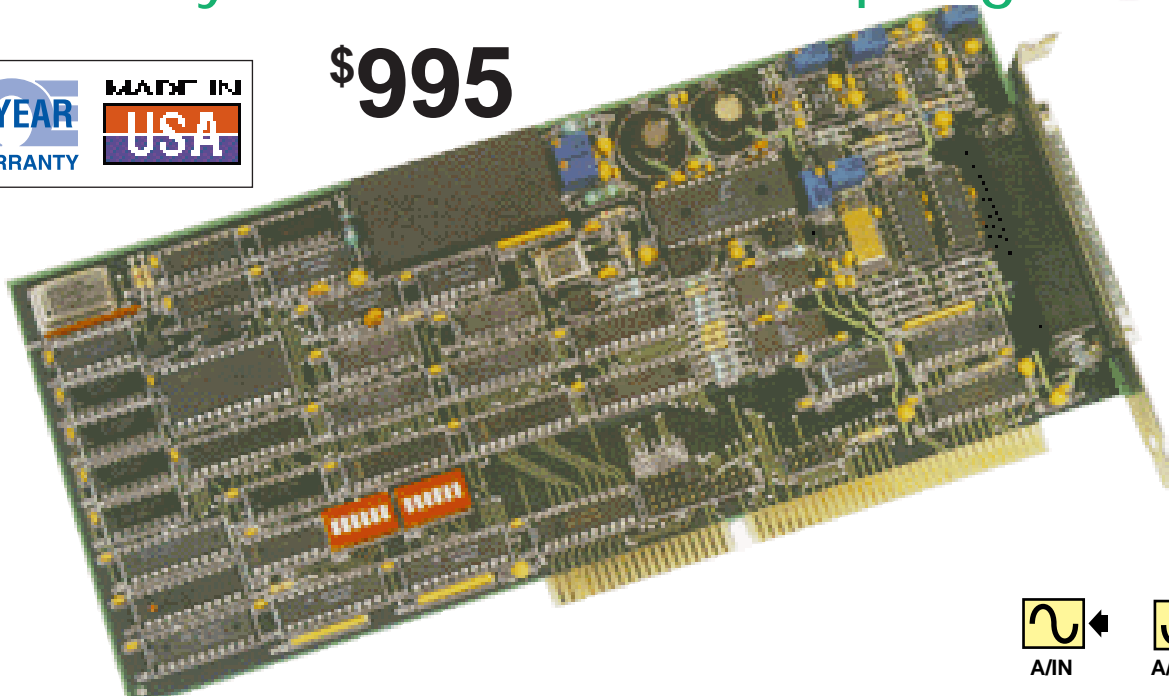


# 16-Bit Data Acquisition System—100 kHz Sampling



**\$995**



- ✓ **100 kHz Maximum Sampling Rate**
- ✓ **Eight Differential Analog Input Channels**
- ✓ **Two 12-Bit Analog Output Channels**
- ✓ **Jumper Selectable Gain of 1, 10 and 100**
- ✓ **Software Support for C, PASCAL, FORTRAN, BASIC and Microsoft Windows**
- ✓ **Optional Cable and Screw Terminal Board (DST-10)**

The DAQ-16 is a complete 16-bit data acquisition system consisting of eight differential analog input channels, two 12-bit analog output channels, four digital output channels, four digital input channels, and three 16-bit programmable timer/counters. The analog input ranges from  $\pm 25$  mV to  $\pm 10$  V in bipolar mode, or 0 to 25 mV to 0 to 10 V in unipolar mode with jumper selectable gain of 1, 10, or 100. The analog output has a unipolar range from 0 to 5 volts and a bipolar range of  $\pm 5$  volts. The maximum sampling

rate for the A/D input is 100 kHz, while the fastest data rate for the D/A output is greater than 200 kHz.

Software support for the DAQ-16 includes drivers for DOS and Microsoft Windows and interface to LABTECH Notebook Menu driven data acquisition software is also provided.

The included software drivers provide support for various programming languages such as Microsoft C/C++, QuickBasic, and Turbo Pascal. A Dynamic Link Library (DLL) is furnished for programming most languages under Microsoft Windows. As an option, Visual Basic Controls (VBX) are also available.

## Specifications

**Channels:** 8 differential  
**Input Ranges** (Jumper Selectable):



**Unipolar:** 0-10 V, 0-2.5 V, 0-5 V, 0-2.5 V, 0-0.1 V, 0-0.05 V, 0-0.025 V  
**Bipolar:**  $\pm 10$  V,  $\pm 5$  V,  $\pm 2.5$  V,  $\pm 0.1$  V,  $\pm 0.05$  V,  $\pm 0.025$  V  
**Accuracy:** 0.004%FSR  $\pm 4$  counts for full scale error  
**Input Impedance:** 10 M $\Omega$   
**Overvoltage:**  $\pm 30$  V  
**ANALOG OUTPUT Channels:** 2  
**D/A type:** Multiplying 12 bit  
**Ranges:** 0-5 Vdc,  $\pm 5$  Vdc with internal reference  
**Current:**  $\pm 5$  mA  
**DIGITAL I/O Inputs:** 4 TTL compatible  
**Output Voltage:** min high = 2.7 V, max low = 0.5 V  
**Output Current:** 0.5 mA source, 8 mA sink  
**Operating Temperature:** 0-50°C  
**Humidity:** 0-95% non-condensing

To Order (Specify Model Number)		
Model No.	Price	Description
DAQ-16	\$995	16 Bit data acquisition board
DST-10	150	Terminal panel with cable
VisualDAQ	195	Visual Basic Controls

Comes with complete operator's manual and driver software.  
**Ordering Example:** DAQ-16 data acquisition board with DST-10 terminal panel, \$995 + \$150 \$1145.

For Sales and Service U.S.A. and Canada  
**1-800-DAS-IEEE**  
 In Mexico, call 95-800-826-6342

D1-0

**ISO9001**  
 CERTIFIED CORPORATE QUALITY

D1 ANALOG INPUT AND MULTI-FUNCTION CARDS