

DAQP-16 16-Bit Analog Input PCMCIA Card



- ✓ 16-Bit Resolution
- ✓ 8 Differential or 16 Single-Ended Analog Inputs
- ✓ Data FIFO of 512 Samples
- ✓ Sampling Rate From 0.01 Hz to 50 kHz
- ✓ Four Digital Input/Output Channels
- ✓ Flexible Trigger Mode (Internal/External, One-Shot/Continuous, Rising/Falling Edge)



The DAQP-16 is a PCMCIA Type II data acquisition adapter with eight differential or 16 single-ended analog input channels. The bipolar input range of the DAQP-16 extends from ± 0.625 (gain of 8) to $\pm 5V$ (gain =1). The programmable gains are in the steps of 1, 2, 4 and 8. The DAQP-16 supports sampling rates up to 50 KHz at 16-bit resolution.

Equipped with a data FIFO of 512 samples, the DAQP-16 can achieve full speed data acquisition under various operating platforms, including Microsoft DOS and Windows. It also has a scan FIFO of 512 points that supports full speed, random order channel scanning and gain selection for all the input channels.

The DAQP-16 has a pacer clock of 24-bit and a programmable divided by eight or by 64 prescaler. The 24-bit pacer clock can also be used with an external clock source. With the 10 MHz internal clock source, the pacer clock can generate accurate sampling rates from 0.01 Hz to 50 kHz. The DAQP-16 also has four digital input and four digital output channels, each of which are TTL compatible and may be used for control or monitoring in addition to analog data acquisition.

The DAQP-16 is supplied with DaqEZ software. DaqEZ is a Windows application which provides real-time data display and datalogging to disk. Also supplied are software drivers.

The software drivers provide support for various programming languages such as Microsoft C/C++, Borland C/C++, QuickBasic, and Turbo Pascal. A Dynamic Link Library (DLL) is provided for all kinds of programming languages under Microsoft Windows. An optional Visual Basic Controls (VBX) is also available. For turn-key operation, the DAQP-16 is also compatible with LABTECH NOTEBOOK and Snap-Master.

A client software driver is provided to configure the DAQP-16. The DAQP-16 client software driver is compatible with PCMCIA Card Services Specification 2.1. A separate enabler program is

Model DAQP-16
\$695

provided for the configuration of the DAQP-16 for those who wish to run the card without card and socket services installed.

Specifications

ANALOG TO DIGITAL

A/D Conversion Time: 10 ms

Nonlinearity Error: 3 LSB

Full Scale Error: ± 3 LSB

Programmable Gain: 1, 2, 4, 8

DIGITAL

Inputs/Outputs: 4 each

Input High/Low: 2.3 V/0.8 V

Output High/Low: 3.4V/.35V typical

Output Current High/Low: 0.5 mA/ 2.5 mA

Power Consumption: 160 mA @ 5V (max.) 60 mA @ 5V (typ.)

To Order (Specify Model Number)		
Model No.	Price	Description
DAQP-16	\$695	16 bit analog input PCMCIA card

Accessories

Model No.	Price	Description
UIO-37	\$110	Terminal strip, Requires CP-DAQP cable
CP-DAQP	40	Cable, 24 inches
VISUALDAQ	195	Visual Basic Controls

Comes with complete operator's manual, DaqEZ software, driver software and PCMCIA configuration software.

Ordering Example: DAQP-16 analog input card with UIO-37 terminal panel and CP-DAQP cable, \$695 + \$110 + \$40 = \$845.