DATA ACQUISITION PLUG-IN GARDS



- Three Different External Triggers: Post-Trigger, Pre-Trigger, External Pacer Trigger
 Divited Investment 10 Divited October
- 16 Digital Input and 16 Digital Output Channels
- OME-PCI-1002L: Programmable Low Gain: 1, 2, 4, 8
 OME-PCI-1002H:
- Programmable High Gain: 1, 10, 100, 1000
- ✓ Half-Size Board
- Includes Software Development Kit

The OME-PCI-1002 Series is a family of PCI bus A/D boards. They feature 110 KHz data acquisition under DOS and Windows. The boards provide 32 single-ended or 16 differential inputs, 16 digital input and 16 digital output channels.

The suffix "H" denotes a high-gain model and the suffix "L" denotes a low-gain model. The OME-PCI-1002 Series provides three flexible external trigger modes: post-trigger, pre-trigger, middle trigger.

Software Development Kit

All boards are supplied with a standard software development kit for Windows 98/NT/2000/XP. The software kit includes DLL files for programming in C, C++, or other high-level languages, and OCX files for Visual Basic or Active X programming. DASYLab and LabVIEW drivers are also included. The OME-PCI-1002 includes 16-channels of digital input and 16-channels of digital output. An OME-DB-8025 screw terminal panel can be used to connect to the digital I/O lines. The OME-DB-16P isolated digital input board and OME-DB-16R relay board can be used to connect the digital I/O on the OME-PCI-1002 to real-world signals.

OME-PCI-1002H Input Ranges (High Gain)

Gain	Bipolar	Sampling Rate (Maximum)
1	±10V	44 KS/s
10	±1V	36 KS/s
100	±0.10V	7 Ks/s
1000	±0.01V	0.8 Ks/s

OME-PCI-1002L Input Ranges (Low Gain)

Gain	Bipolar	Sampling Rate (Maximum)
1	±10V	110 KS/s
2	±5V	110 KS/s
4	±2.5V	110 KS/s
8	±1.25V	110 KS/s

Data Acquisition Plug-In Cards

Specifications

ANALOG INPUT SPECIFICATIONS Channels: OME-PCI-1002H, OME-PCI-1002L: 32 single-ended/16 differential Resolution: 12-bits Maximum Conversion Rate: OME-PCI-1002H: 40 KS/s OME-PCI-1002L: 110 KS/s Input Impedance: 10,000 M Ω /6pF Overvoltage Protection: \pm 35V Accuracy: 0.01% of reading \pm 1-bit Linearity: \pm 1-bit

DIGITAL I/O

Inputs: 16 channels; TTL levels Input Low: $V_{\mu} = 0.8V$ maximum $I_{\mu} = 4$ mA Input High: $V_{\mu} = 2V$ minimum $I_{\mu} = -20$ μ A maximum Outputs: 16 channels; TTL levels Output Low: $V_{oL} = 0.33V$ maximum $I_{oL} = 4$ mA maximum Output High: $V_{oH} = 3.83V$ minimum $I_{oH} = -400$ μ A maximum

TIMER COUNTER

Internal Pacer Timer: 16-bit, 8 MHz input External Pacer Timer: 16-bit, 8 MHz input Machine Independent Timer: 16-bit, 8 MHz input

GENERAL ENVIRONMENTAL

Operating Temperature: 0 to 50°C (32 to 122°F) Storage Temperature: -20 to 70°C (-4 to 158°F) Humidity: 0 to 90% RH non-condensing Dimensions: 175 L x 105 mm H (6.9 x 4.1") Power Requirements: 5V @ 350 mA (maximum)



OME-DB-16P shown smaller than actual size

OME-DB-16R shown smaller than actual size



OMEGACARE[™] extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE[™] covers parts, labor and equivalent loaners.

To Order			
Model Number	Description		
OME-PCI-1002H	40 KS/s high gain, 12-bit analog and digital I/O board		
OME-PCI-1002L	110 KS/s low gain, 12-bit analog and digital I/O board		
OME-DB-1825/1	Screw terminal board for analog input channels with 1 m 37-pin D-Sub cable		
OME-DB-1825/2	Screw terminal board for analog input channels with 2 m 37-pin D-Sub cable		
OME-DB-8025	Screw terminal board for digital I/O, includes two 1 m 20-pin flat cable		
OME-DB-16P	16-channel isolated digital input board, includes 1 m 20-pin flat cable		
OME-DB-16R	16-channel SPDT relay board, includes 1 m 20-pin flat cables		
OME-ADP-20/PCI	20-pin extender (extends the dual 20-pin digital I/O flat cable connectors on the board to the PC slot window), includes two 20-pin flat cables		

Comes complete with operator's manual on CD ROM and software development kit. Ordering Example: OME-PCI-1002H, high-gain data acquisition board, OME-DB-8025, screw terminal board and OCW-1, OMEGACARE [™] extends standard 1-year warranty to a total of 2 years.