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 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.
To Order

Model Number | Description
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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 cables
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™ extended warranty program extends standard 1-year warranty to a total of 2 years.

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 MΩ/6pF
Overvoltage Protection: ±35V
Accuracy: 0.01% of reading ±1-bit
Linearity: ±1-bit

DIGITAL I/O
Inputs: 16 channels; TTL levels
Input Low:
\[ V_i = 0.8V \text{ maximum} \]
\[ I_i = 4 \text{ mA} \]
Input High:
\[ V_i = 2V \text{ minimum} \]
\[ I_i = -20 \mu A \text{ maximum} \]
Outputs: 16 channels; TTL levels
Output Low:
\[ V_o = 0.33V \text{ maximum} \]
\[ I_o = 4 \text{ mA} \text{ maximum} \]
Output High:
\[ V_o = 3.83V \text{ minimum} \]
\[ I_o = -400 \mu A \text{ maximum} \]

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)