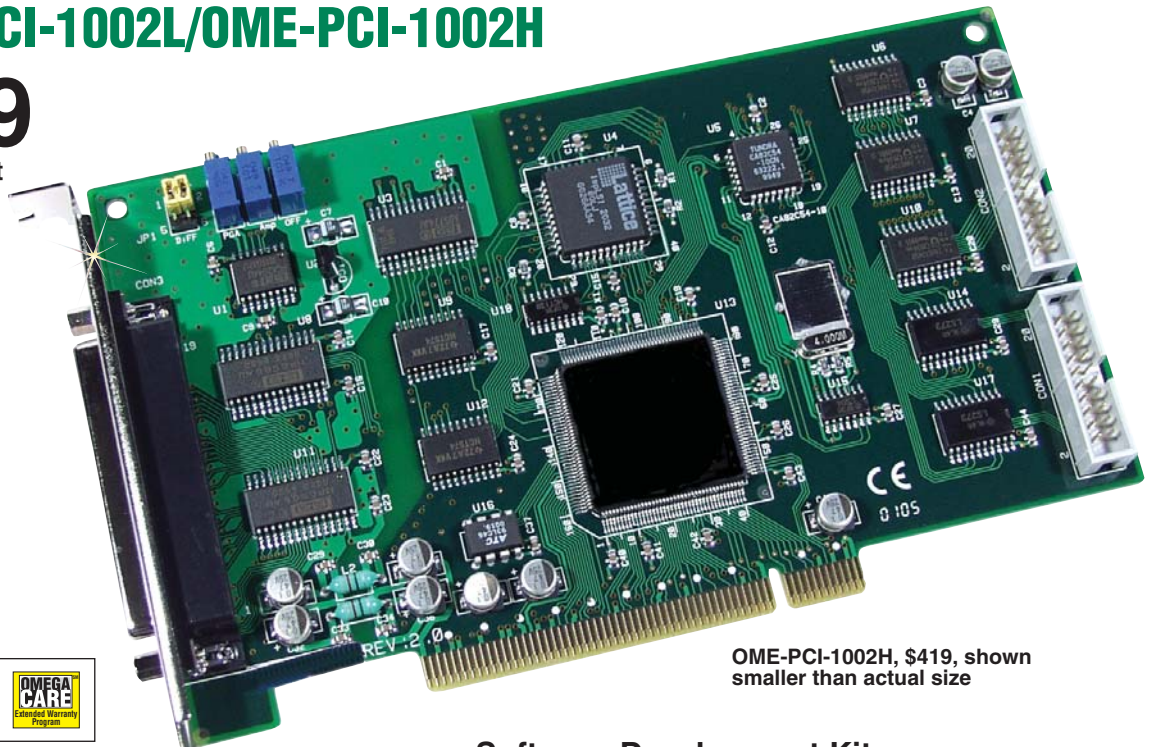


110 KS/s 12-Bit Low-Cost A/D Boards

OME-PCI-1002L/OME-PCI-1002H

\$419

Basic unit



OME-PCI-1002H, \$419, shown smaller than actual size



- ✓ PCI Bus
- ✓ 12-Bit 110 KHz A/D Converter
- ✓ 32 Single-Ended/16 Differential Analog Inputs
- ✓ Sampling Rate:
OME-PCI-1002L: 110KS/s
OME-PCI-1002H: 40KS/s
(Single Channel or Multiple Channels)
- ✓ Three Different External Triggers:
Post-Trigger, Pre-Trigger,
External Pacer Trigger
- ✓ 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 (Max.)
1	±10 V	44 KS/s
10	±1 V	36 KS/s
100	±0.10 V	7 Ks/s
1000	±0.01 V	0.8 Ks/s

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

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

Specifications

ANALOG INPUT SPECIFICATIONS

Channels:

OME-PCI-1002H, OME-PCI-1002L:
32 single-ended/16 differential

Resolution: 12-bits

Max Conversion Rate:

OME-PCI-1002H: 40 KS/s

OME-PCI-1002L: 110 KS/s

Input Impedance: 10,000 MΩ/6pF

Overvoltage Protection: ±35 V

Accuracy: 0.01% of reading ±1-bit

Linearity: ±1-bit

DIGITAL I/O

Inputs: 16 channels; TTL levels

Input Low:

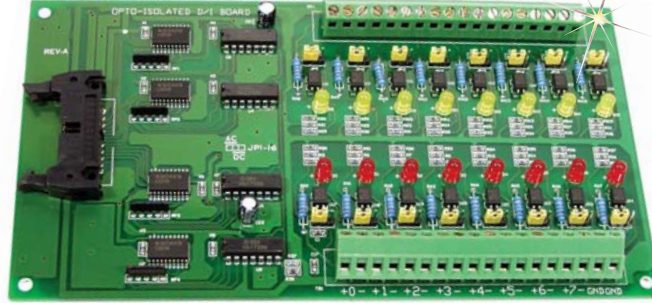
$V_{IL} = 0.8 \text{ V max}$

$I_{IL} = 4 \text{ mA}$

Input High:

$V_{IH} = 2 \text{ V min}$

$I_{IH} = -20 \text{ } \mu\text{A max}$



OME-DB-16P, \$109, shown smaller than actual size

Outputs: 16 channels; TTL levels

Output Low:

$V_{OL} = 0.33 \text{ V max}$

$I_{OL} = 4 \text{ mA max}$

Output High:

$V_{OH} = 3.83 \text{ V min}$

$I_{OH} = -400 \text{ } \mu\text{A max}$

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)

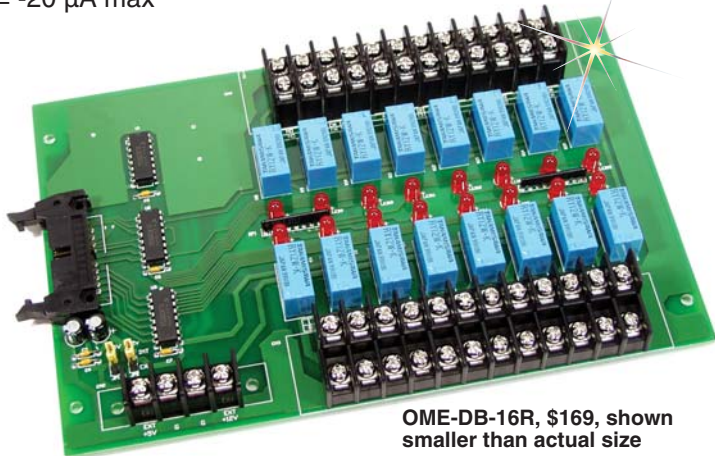
Humidity: 0 to 90% RH

non-condensing

Dimensions: 175 L x 105 mm H
(6.9 x 4.1")

Power Requirements:

5 V @ 350 mA (max)



OME-DB-16R, \$169, shown smaller than actual size

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

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model Number	Price	Description
OME-PCI-1002H	\$419	40 KS/s high gain, 12-bit analog and digital I/O board
OME-PCI-1002L	419	110 KS/s low gain, 12-bit analog and digital I/O board
OME-DB-1825/1	109	Screw terminal board for analog input channels with 1 m 37-pin D-Sub cable
OME-DB-1825/2	119	Screw terminal board for analog input channels with 2 m 37-pin D-Sub cable
OME-DB-8025	79	Screw terminal board for digital I/O, includes two 1 m 20-pin flat cable
OME-DB-16P	109	16-channel isolated digital input board, includes 1 m 20-pin flat cable
OME-DB-16R	169	16-channel SPDT relay board, includes 1 m 20-pin flat cables
OME-ADP-20/PCI	49	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

Each OME-PCI-1002H and OME-PCI-1002L data acquisition board includes complete 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, OMEGACARESM 1-year extended warranty for OME-PCI-1002H (adds 1 year to standard 1-year warranty), \$419 + 79 + 41 = \$539.



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters