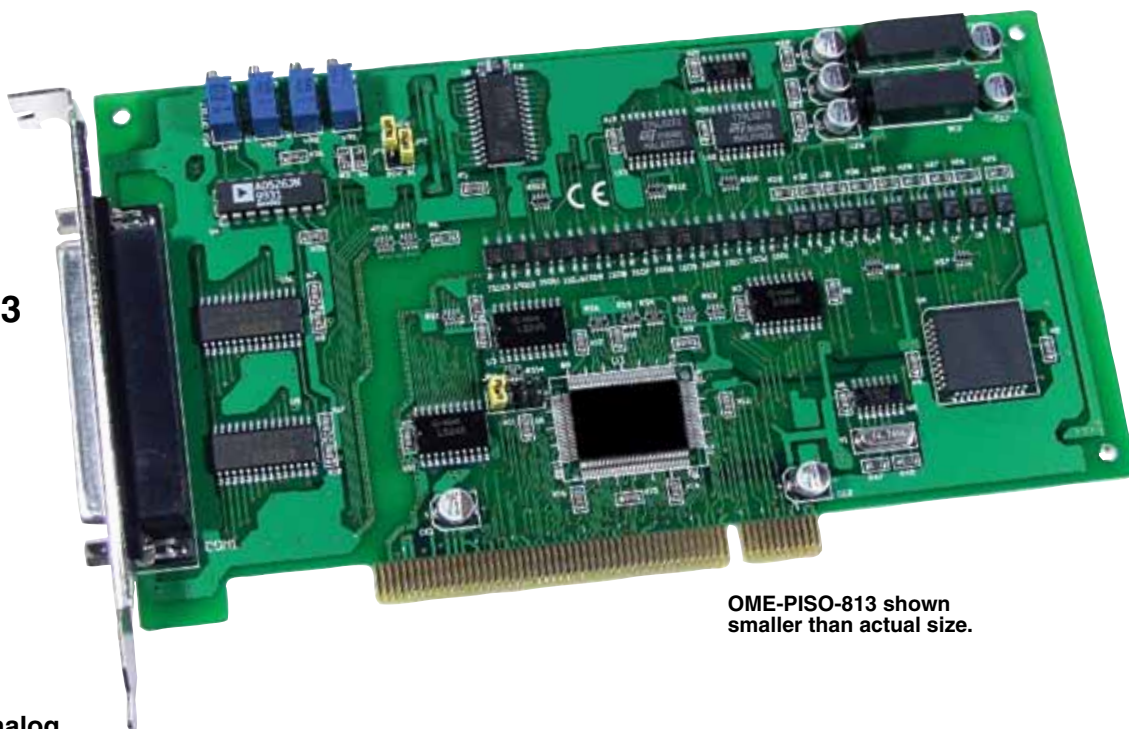


DATA ACQUISITION PLUG-IN CARDS

32-Channel Single-Ended Isolated Analog Input Board

OME-PISO-813



OME-PISO-813 shown smaller than actual size.

- ✓ PCI Bus
- ✓ 12-Bit A/D
- ✓ 32 Single-Ended Analog Input Channels
- ✓ 3,000 Vdc Photo-Isolation Protection
- ✓ Analog Input Ranges:
Bipolar: ± 10 V, ± 5 V, ± 2.5 V, ± 1.25 V, ± 0.625 V
Unipolar: 0 to 10 V, 0 to 5 V, 0 to 2.5 V, 0 to 1.25 V, 0 to 0.625 V
- ✓ Programmable Gain Control (1, 2, 4, 8, 16)
- ✓ A/D Trigger Mode: Software Trigger
- ✓ A/D Data Transfer Mode: Polling

The OME-PISO-813 is an isolated 12-bit A/D board for the PCI bus for IBM or compatible PC. It features a 10 KHz data acquisition rate under DOS and Windows.

The OME-PISO-813 provides 32 single-ended analog inputs and has 3000 Vdc photo-isolation from the PC (no channel-to-channel isolation).

Software Development Kit

The OME-PISO-813 is supplied with a standard software development kit for Windows 98/NT/2000/XP. The software development 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.

Specifications

ANALOG INPUTS

Channels: 32 single-ended
Resolution: 12-bits
Conversion Rate: 10 KS/s max
Input Impedance: 10 M Ω
Overvoltage Protection: ± 35 V
Accuracy: 0.01% of reading ± 1 bit
Linearity: ± 1 bit
Sample & Hold: on chip
Zero Drift: ± 25 ppm/ $^{\circ}$ C of FS max
Power Requirements:
+5 V @ 850 mA max
A/D Trigger Mode: Software trigger
A/D Data Transfer Mode: Polling

GENERAL ENVIRONMENTAL

Operating Temperature:

0 to 50 $^{\circ}$ C (32 to 122 $^{\circ}$ F)

Storage Temperature:

-20 to 70 $^{\circ}$ C (-4 to 158 $^{\circ}$ F)

Humidity: 0 to 90% RH non-condensing

Dimensions: 180 L x 105 mm H (7.1 x 4.1")

Connector: 37-pin D-sub female

To Order

Model No.	Description
OME-PISO-813	32-channel isolated analog input board
OME-DB-8325/1	Screw terminal board with signal conditioning circuitry (includes 1 m (3') D-sub 37-pin ribbon cable)
OME-DB-8325/2	Screw terminal board with signal conditioning circuitry (includes 2 m (6.5') D-sub 37-pin ribbon cable)
OME-DB-37	Direct connect 37-pin terminal board
OME-DN-37	DIN rail mount I/O connector block with 37-pin D-sub connector, includes 1 m (3') cable