

Functional Description

The PISO-813 is a bus-type isolated 12-bit A/D board for the PCI bus for IBM or compatible PC. It features a 10KHz data acquisition under DOS and Windows. The PISO-813 provides 32 single-ended analog input. The isolation range of PISO-813 is increased to 3000 V. It is the most cost-effective isolated A/D board for the PCI Bus in the world. The PISO-813 has one 37-pin D-sub connector. It can be installed in a 5V PCI slot and can support truly " Plug & Play "

Features

- PCI Bus
- 32 single-ended analog input channels
- 12-bit A/D converter
- 3,000Vdc photo-isolation protection
- Analog input range
 - Bipolar: +/-10V, +/-5V, +/-2.5V, +/-1.25V, +/-0.625V
 - Unipolar: 0-10V, 0-5V, 0-2.5V, 0-1.25V
- Programmable gain control: 1, 2, 4, 8, 16
- 3000V DC/DC converter built-in
- A/D trigger mode: software trigger
- A/D data transfer mode: polling

Applications

- Data acquisition
- Harsh environment operation
- Signal isolation

Specifications

- Channels: 32 single-ended
- Resolution: 12 bits
- Conversion rate: 10KS/s (max.)
- Input impedance: 10MΩ
- Overvoltage protection: +/-35V
- Accuracy: 0.01% of reading +/- 1 bit
- Linearity: +/- 1 bit
- On chip sample & hold

- Zero drift: +/-25ppm/°C of FS max.
- Power consumption: +5V / 860mA

Environmental

- Operating Temperature: 0 to 50 °C
- Storage Temp.: -20 °C to 70 °C
- Humidity: 0 to 90 % non-condensing
- Dimension: 180 mm x 105 mm

Software

- PISO-813 Development Toolkit for DOS
- PISO-813 Development Toolkit for Win95
- PISO-813 Development Toolkit for WinNT

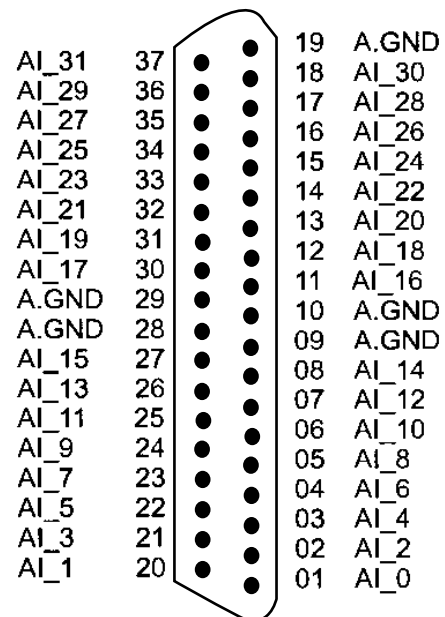
Order Description

- PISO-813: 32 channel isolated analog input board
- PISO-813/S: PISO-813 with DB-8325

Options

- DB-8325: Daughter board with signal conditioning circuitry
- DB-37: Directly connect signals to the back of PISO-813
- DN-37: I/O connector block with DIN-rail mounting and 37-pin D-Sub connector on it
- PISO-813 LabVIEW Development Toolkit for Win95
- PISO-813 LabVIEW Development Toolkit for WinNT

Pin Assignment



Note: AI-n: Analog Input Channel
A.GND: Analog Ground