

PISO-DA2

2-channel 12-bit isolated analog output board



Features

- 32-bit +5V PCI Bus, Plug & Play
- Two independent 12-bit channels of analog output
- 3750 VDC isolation protection
- 3000 VDC isolation DC/DC converter build-in
- Software calibration
- The calibration data is fully stored in EEPROM
- Two pacer timers interrupt source
- The voltage or current output can be set to arbitrary values or reset to zero when the power is on

2 PCI Bus I/O Boards

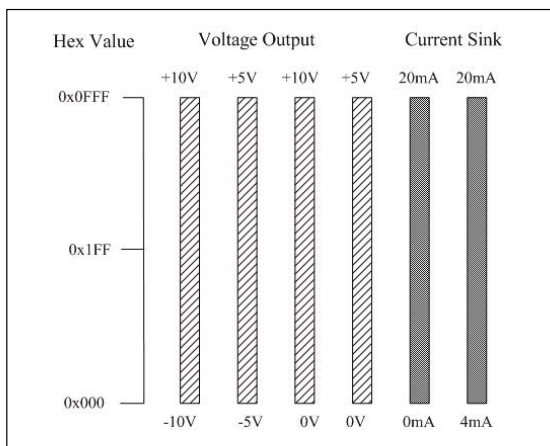
Functional Description

The PISO-DA2 is a PCI bus analog output board with two isolated 12-bit output channels for IBM personal computer and compatibility. The output range can be configured as voltage output by one of the different ranges: $\pm 10V$, $\pm 5V$, $0\sim 10V$, $0\sim 5V$, or current output using loop sink by the range: $0\sim 20\text{ mA}$ or $4\sim 20\text{ mA}$. Besides, output channel is isolated from each other and the isolation range can reach the voltage more than 3000 VDC. The maximum conversion rate of the analog output is 10KS/s. It is the most cost-effective isolated D/A board for the PCI bus interface.

Applications

- Factory Automation
- Product Test
- Laboratory Automation
- Security Control

Output Range Resolution



Specifications

- D/A converter with resolution: 12-bit
- Conversion rate: 10KS/s max
- Voltage output range: Bipolar: $\pm 10V$, $\pm 5V$
Unipolar: $0\sim 10V$, $0\sim 5V$
- External load register: $1K\Omega$ min
- Reference voltage: Internal: $-5V$ and $-10V$
External: DC $\pm 10V$ max
- Current output: $0\sim 20\text{ mA}$, $4\sim 20\text{ mA}$
- Current loop excitation voltage: $+8V\sim +36V$
- External load register: 400Ω max
- Converter: AD7541 or equivalent
- Accuracy: 0.015% of reading FSR (Full Scale Range)
- Linearity: $\pm 1/2$ LSB

General Specifications

- I/O connector: two 9-pin D-Sub female
- Power requirement: $5V @ 2.5A$
- Operating temperature: $0 \sim 60^\circ C$
- Operating humidity: $0 \sim 90\%$ non-condensing
- Storage temperature: $-20 \sim 70^\circ C$
- Dimensions: $170\text{ mm} \times 122\text{ mm}$

Ordering Information

Standard

PISO-DA2: Isolated 12-bit analog output board
PISO-DA2/S: PISO-DA2 with DB-8425

Optional

DB-8425: Screw terminal board for PISO-DA2
DN-09-02: DIN-rail mounting terminal board for PISO-DA2