

1-8000

1-7000

I-7188

AD/DA Card

others

HOME

ISO-DA16

14-bit of 16 -channel Isolated Analog Output Board



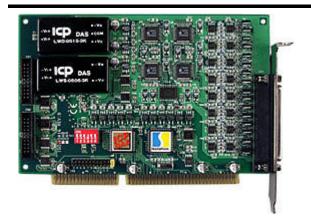




PIN Assignment

Software

Manual



Functional Description

The ISO-DA16 is bus-type isolated 14-bit D/A card for PC/AT compatible computers. The optical isolation of the ISO-DA16 can operate with up to 2500Vrms of common-mode voltage.

The ISO-DA16 offers 16-channel double-buffered analog output. The output range may be configured from these range: +/-10V, +/-5V, 0~10V, 0~5V voltage output or 4 to 20mA or 0 to 20mA current loop sink.

The board*s innovative design improve several drawbacks of the conventional isolated D/A card . For example :

- 1. Jumperless, Trimless
- 2. The power-on value of analog output can be predefined by the user and stored in the on board EEPROM
- 3. High channel count output can be designed implemented in half size.
- 4. The calibration is performed under software control, thus eliminating manual trimpot adjustments. The calibration data is stored in EEPROM. Easy recalibration ensures the accuracy of the board.

Features

- ISA bus
- 2500Vdc photo-isolation protection
- 16-channel, 14-bit analog output
- Voltage/ current outputs from each converter
- Output Type (Unipolar or Bipolar) and output range (0~5v,+/-5V,0~10V,+/-10V) can be software programmble
- 4-20mA current sink to ground from each converter
- Double-buffered D/A latches
- Command set programming
- Software Calibration

Software

- Toolkit for DOS
- Toolkit for Windows 95/98
- Toolkit for Windows NT
- Toolkit for Windows 2000/XP
- Toolkit for LabVIEW 95/98
- Toolkit for LabVIEW NT
- ActiveX Control (OCX) 95/98
- ActiveX Control (OCX) NT
- ActiveX Control (OCX) 2000/XP
- Driver for LINUX
- Driver for DasyLab

Option

DN-37

37-Pin D-sub connector Screw terminal Board

DB-37: (Direct connect)

37-pin D-sub connector Screw terminal Board

Specifications

Analog Outputs

D/A converter	Sipex Quad 14-bit MDAC
Channels	16 independent
Resolution	14-bit
Type	double-buffered, multiplying
Integral linearity	0.006% FSR ; typical
Differential linearity	0.006 % FSR ; typical

Voltage Output Range

Unipolar	0~5V or 0~10V
Bipolar	+/-10Vor,+/- 5V
Current drive	+/-5mA
Absolute accuracy	0.01% FSR typical
Power on state	programmable

Current Output Range

Current output	0-20mA or 4-20mA
Absolute Accuracy	0.1% FSR typical
Excitation voltage range	+ 7 V to +40V
Power On state	programmable

Stability

Offset temperature coefficient	+/- 50 µV/ deg C
Gain temperature coefficient	+/- 10ppm (C)

General Environmental

Power Requirements:	ISO-DA8 +5Vdc @800mA max. ISO-DA16+5Vdc @1400mA max.
Operating temp	0-50 deg/ C
Storage temp	-20 to 70 deg/C
Humidity	0 to 90% non-condensing
Dimensions	182 mm x 122 mm

Applications

- Programmable voltage source
- Programmable current sink
- Harsh environment operation
- Process control

Ordering Information

ISO-DA16	16-channel Bus Isolated Analog Output Board
ISO-DA16/S	ISO-DA16 + DN-37