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Find the *Abaco Systems / SBS / Greenspring IP-OPTODA16-4CH* at our website: *Click HERE*

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IP-OPTODA16

Four Channel 16 Bit Opto-Isolated DAC IndustryPack

Application Information

The IP-OPTODA16 provides four channels of 16-bit digital to analog conversion on a single-wide IndustryPack.. The four DAC channels may select one of two output ranges via a shunt. The DACs are opto-isolated from the system and provided with power by an on-board DC/DC converter.

Each of the channels is factory calibrated and the offset and gain correction factors stored in the ID PROM. Software may use this calibration information to provide output voltages accurate to within four LSBs.

Key Features

- Four 16-bit opto-isolated DACs on a single-wide IndustryPack
- Output ranges of –10, ±10V selectable for all channels
- 10 us conversion time
- Factory calibrated; data in ID PROM

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Specifications

Form Factor	Single-wide IndustryPack
IndustryPack Bus Speed	8 MHz
Wait States	One on ID read None on DAC writes, IACK cycles
Number of Channels	4
Precision	16 bits
Output Voltage Ranges	10, ±10V Hardware selected all 4 channels
Output Current	±4 mA
Accuracy	± 4 LSB after calibration
Calibration	Offset and gain factory calibrated. Parameters in ID PROM
Conversion Time	10 us to 0.003%
Isolation	All channels galvanically isolated from system
Dimensions	3.9” x 1.8”
Weight	Tbd lb (tbd kg)
Power Requirements	+5 VDC, 430 mA typical
Environmental	Operating temperature: -40 to 85°C Humidity: 5 to 95% non-condensing Storage: –40 to +85°C

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Order Information

IP-OPTODA16-4CH	IndustryPack with four optically-isolated 16-bit DACs
EKIP50-OPTODA16	Engineering kit for IP-OPTODA12 if mounted on a carrier with 50-pin ribbon cable header front panel I/O connectors. Contains: Three foot 50 conductor ribbon cable (C-IP50F-IP50F-3) Fifty screw terminal block with ribbon header (IP-TERM) *(More items as below)*
EKHD50-OPTDA16	Engineering kit for IP- OPTODA12if mounted on a carrier with HD50 front panel I/O connectors. Contains: Six foot cable HD50 male to HD50 male (C-HD50M-HD50M) Fifty screw terminal block with HD50 female (IP-TERM-HD50) *(More items as below)*
EKCM50-OPTODA16	Engineering kit for IP- OPTODA12if mounted on a carrier with Champ50 front panel I/O connectors. Contains: Three foot Champ50 male to ribbon cable (C-CM50M-IP50M) Six foot Champ50 male to HD50 male cable (C-HD50M-CM50M) Fifty screw terminal block with HD50 female (IP-TERM-HD50) *(More items as below)*
All IP-OPTODA16 engineering kits include:	Printed hardware user manual Bill of materials Board schematics Assembly diagram Analog Devices: AD7849 data sheet

Associated Products

C-IP50F-IP50F-3	Three foot fifty conductor ribbon cable
C-IP50F-IP50F-6	Six foot fifty conductor ribbon cable
IP-TERM	Fifty screw terminal block with ribbon connector

8371C Central Avenue, Newark, CA 94560
(510) 742-2500 • sales.mio@sbs.com • www.sbs.com

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