


Digital Isolator 4-CH 1Mbps 16-Pin SOIC W Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	WSOP-16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ADuM5400 device is a quad-channel digital isolator with isoPower®, an integrated, isolated dc-to-dc converter. Based on the Analog Devices, Inc., iCoupler® technology, the dc-to-dc converter provides up to 500 mW of regulated, isolated power with 5.0 V input and 5.0 V output voltages. This architecture eliminates the need for a separate, isolated dc-to-dc converter in low power, isolated designs. The iCoupler chip scale transformer technology is used to isolate the logic signals and the magnetic components of the dc-to-dc converter. The result is a small form factor, total isolation solution. The ADuM5400 isolator provides four independent isolation channels in two speed grades (see the Ordering Guide for more information). isoPower uses high frequency switching elements to transfer power through its transformer. Special care must be taken during printed circuit board (PCB) layout to meet emissions standards. Refer to the AN-0971 application note for details on board layout recommendations.

Key Features

- 500mW Output power
- Quad DC-to-25Mbps (NRZ) signal isolation channels
- Schmitt-trigger input
- >25kV/μs High common-mode transient immunity

Application

- RS-232/RS-422/RS-485 transceiver
- Industrial field bus isolation
- Power supply start-up bias and gate drives
- Isolated sensor interface
- Industrial PLCs

Recommended For You

ADM3490EARZ

Analog Devices, Inc
SOP-8

ADuM3160BRWZ-RL

Analog Devices, Inc
SOP16

ADM3232EARUZ

Analog Devices, Inc
TSSOP-16

ADuM5211ARSZ

Analog Devices, Inc
SSOP20

ADuMI201BRZ-RL7

Analog Devices, Inc
SOP8

ADV7623BSTZ

Analog Devices, Inc
LQFP144

ADuMI410BRWZ

Analog Devices, Inc
SOP16

AD698APZ

Analog Devices, Inc
PLCC28

ADM3251EARWZ

Analog Devices, Inc
SOP20

ADM485ANZ

Analog Devices, Inc
DIP

ADuM6400ARWZ

Analog Devices, Inc
SOP16

ADuMI281BRZ

Analog Devices, Inc
SOP8

ADUMI42E0BRZ

Analog Devices, Inc
SOP-16

ADuMI412BRWZ

Analog Devices, Inc
SOP16

ADV7622BSTZ

Analog Devices, Inc
TQFP144