
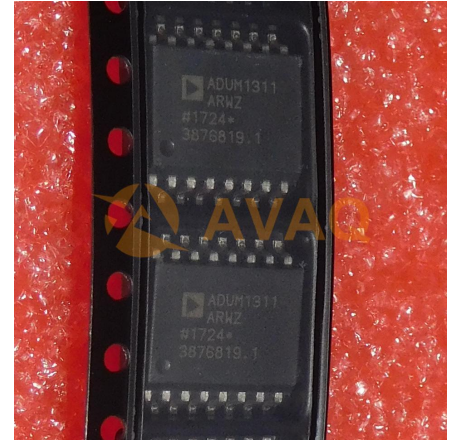


Digital Isolator CMOS 3-CH 1Mbps 16-Pin SOIC W Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ADuM131x are 3-channel digital isolators based on Analog Devices, Inc., iCoupler® technology. Combining high speed CMOS and monolithic air core transformer technology, these isolation components provide outstanding performance characteristics superior to alternatives such as optocoupler devices. By avoiding the use of LEDs and photodiodes, iCoupler devices remove the design difficulties commonly associated with optocouplers. The typical optocoupler concerns regarding uncertain current transfer ratios, maximum operating temperature, and lifetime effects are eliminated with the simple iCoupler digital interfaces and stable performance characteristics. The need for external drivers and other discrete components is eliminated with these iCoupler products. Furthermore, iCoupler devices consume one-tenth to one-sixth the power of optocouplers at comparable signal data rates. The iCoupler also offers higher channel densities and more options for channel directionality.

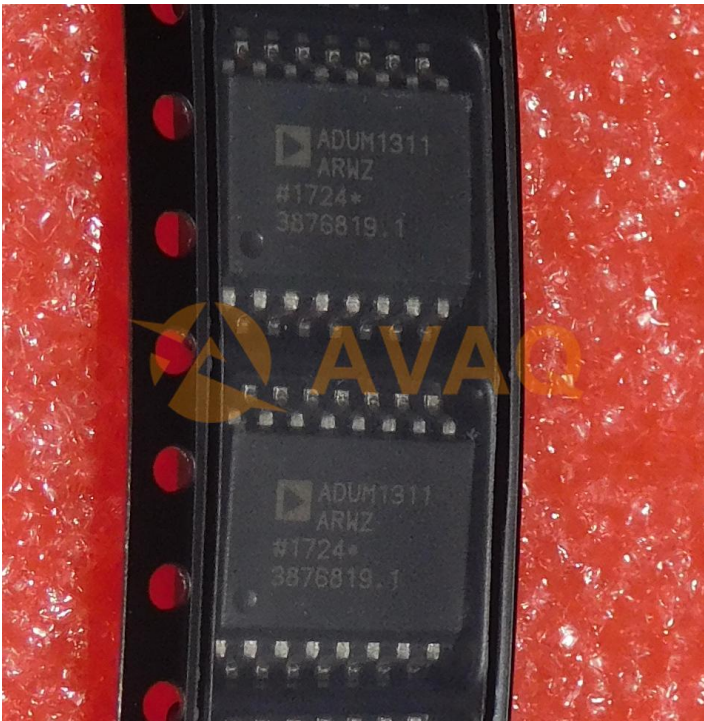
The ADuM131x isolators provide three independent isolation channels in a variety of channel configurations and data rates up to 10 Mbps (see the Ordering Guide). All models operate with the supply voltage on either side ranging from 2.7 V to 5.5 V, providing compatibility with lower voltage systems as well as enabling voltage translation functionality across the isolation barrier. All products allow the user to predetermine the default output state in the absence of input VDD1 power with a simple control pin. Unlike other optocoupler alternatives, the ADuM131x isolators have a patented refresh feature that ensures dc correctness in the absence of input logic transitions and during power-up/ power-down conditions.

Key Features

- Low power operation
- Bidirectional communication
- Schmitt-trigger input
- Up to 10Mbps data rate (NRZ)
- Programmable default output state
- >25kV/μs High common-mode transient immunity
- 8.1mm External creepage

Application

- General-purpose multichannel isolation
- SPI interface/data converter isolation
- RS-232/RS-422/RS-485 transceiver
- Industrial field bus isolation



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

ADuM1201BRZ-RL7

Analog Devices, Inc

SOP8

ADV7623BSTZ

Analog Devices, Inc

LQFP144

ADuM1410BRWZ

Analog Devices, Inc

SOP16

AD698APZ

Analog Devices, Inc

PLCC28

ADM3251EARWZ

Analog Devices, Inc

SOP20

ADM485ANZ

Analog Devices, Inc

DIP

ADuM6400ARWZ

Analog Devices, Inc

SOP16

ADuM1281BRZ

Analog Devices, Inc

SOP8

ADUM142E0BRZ

Analog Devices, Inc

SOP-16

ADuM1412BRWZ

Analog Devices, Inc

SOP16

ADV7622BSTZ

Analog Devices, Inc

TQFP144