

## Isolator Interface IC 5 - CH UNIDIRECTIONAL DIGITAL ISOLATORS

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP-16
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM1510BRWZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADuM1510 is a unidirectional, 5-channel isolator based on the 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 eliminate the design difficulties commonly associated with optocouplers. The typical optocoupler concerns regarding uncertain current transfer ratios, nonlinear transfer functions, and 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 iCoupler products. In addition, iCoupler devices run at one-tenth to one-sixth the power consumption of optocouplers at comparable signal data rates.

The ADuM1510 isolator provides five independent isolation channels supporting data rates up to 10 Mbps. The ADuM1510 operates with the supply voltage of either side ranging from 4.5 V to 5.5 V. Unlike other optocoupler alternatives, the ADuM1510 isolator has a patented refresh feature that ensures dc correctness in the absence of input logic transitions and during power-up/power-down conditions.

## Features

RoHS compliant, 16-lead, wide body SOIC package

Low power operation: 5 V

1.3 mA per channel maximum at 0 Mbps to 2 Mbps

3.3 mA per channel maximum at 10 Mbps

High temperature operation: 105°C

Up to 10 Mbps data rate (NRZ) default output state

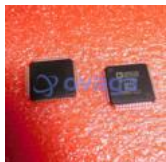
Safety and regulatory approvals

## Application

General-purpose, unidirectional, multichannel isolation



## Related Products



### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD8170AR](#)

Analog Devices, Inc  
SOP8



### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



### [ADV7393BCPZ](#)

Analog Devices, Inc  
LFCSP-VQ-40



[ADV7391WBCPZ](#)

Analog Devices, Inc  
LFSCP-3



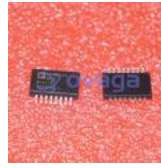
[ADV7390BCPZ](#)

Analog Devices, Inc  
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



[ADUM4160BRIZ](#)

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