

Digital Isolator CMOS 2-CH 10Mbps 8-Pin SOIC N T/R

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM1200BRZ-RL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADuM1200 is a dual-channel, digital isolator with 2/0 directionality based on the Analog Devices, Inc., iCoupler® technology. Combining high speed CMOS and monolithic transformer technologies, this isolation component provides outstanding performance characteristics superior to alternatives, such as optocouplers.

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, 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 these iCoupler products. Further-more, iCoupler devices consume one-tenth to one-sixth the power of optocouplers at comparable signal data rates.

The ADuM120x family of isolators provides two independent isolation channels in a variety of channel configurations and data rates (see the Ordering Guide). Both parts 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 a voltage translation functionality across the isolation barrier. In addition, the ADuM120x provide low pulse width distortion (<3 ns for CR grade) and tight channel-to-channel matching (<3 ns for CR grade). Unlike other optocoupler alternatives, the ADuM120x isolators have a patented refresh feature that ensures dc correctness in the absence of input logic transitions and during power-up/power-down conditions.

ADuM1200W and ADuM1201W are automotive grade versions qualified for 125°C operation per AEC-Q100. See the Automotive Products section for more details.

Features

Narrow body, RoHS-compliant, SOIC 8-lead package

Low power operation

Bidirectional communication

3 V/5 V level translation

High temperature operation: 125°C

High data rate: dc to 25 Mbps (NRZ)

Automotive versions qualified per AEC-Q100

See data sheet for additional features

ADuM1200-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Military temperature range (−55°C to +125°C)

Controlled manufacturing baseline

Enhanced product change notification

Qualification data available on request

V62/12630 DSCC Drawing Number

Application

Size-critical multichannel isolation

SPI interface/data converter isolation

RS-232/RS-422/RS-485 transceiver isolation

Digital field bus isolation

Hybrid electric vehicles, battery monitor, and motor drive

The ADuM1200-EP supports defense and aerospace applications (AQEC)

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[AD724JR](#)

Analog Devices, Inc
SOIC-16



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



[AD8170AR](#)

Analog Devices, Inc
SOP8



[ADV7393BCPZ](#)

Analog Devices, Inc
LFCSP-VQ-40



[ADV7390BCPZ](#)

Analog Devices, Inc
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc

LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc

SOIC-16