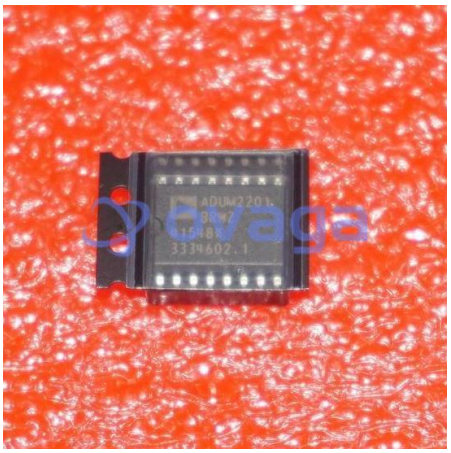
ADUM2201BRWZ

Data Sheet

Digital Isolator, 2 Channel, 50 ns, 3 V, 5.5 V, SOIC, 16 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-16
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM2201BRWZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADuM2200/ADuM2201 are 2-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 that are 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. 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. Furthermore, iCoupler devices consume one-tenth to one-sixth the power of optocouplers at comparable signal data rates.

The ADuM2200/ADuM2201 isolators provide two independent isolation channels in two channel configurations with data rates up to 10 Mbps (see the Ordering Guide). Both parts operate with the supply voltage on either side ranging from 3.0 V to 5.5 V, providing compatibility with lower voltage systems, as well as enabling voltage translation functionality across the isolation barrier. TheADuM2200/ADuM2201 isolators have a patented refresh feature that ensures dc correctness in the absence of input logic transitions and during power-up/power-down conditions.

Similar to the ADuM3200/ADuM3201 isolators, the ADuM2200/ADuM2201 isolators contain various circuit and layout enhancements that provide increased capability relative to system-level IEC 61000-4-x testing (ESD, burst, and surge). The precise capability in these tests for either the ADuM3200/ADuM3201 or ADuM2200/ADuM2201 products is strongly determined by the design and layout of the user's board or module. For more information, see the AN-793 Application Note, ESD/Latch-Up Considerations with iCoupler Isolation Products.

Features

Qualified for automotive applications

High isolation voltage: 5000 V rms

Enhanced system-level ESD performance per IEC 61000-4-x

Low power operation5 V operation3.3 V operation

3.3 V/5 V level translation

High temperature operation: 125°C

High data rate: dc to 10 Mbps (NRZ)

See Data Sheet for Additional Information

Application

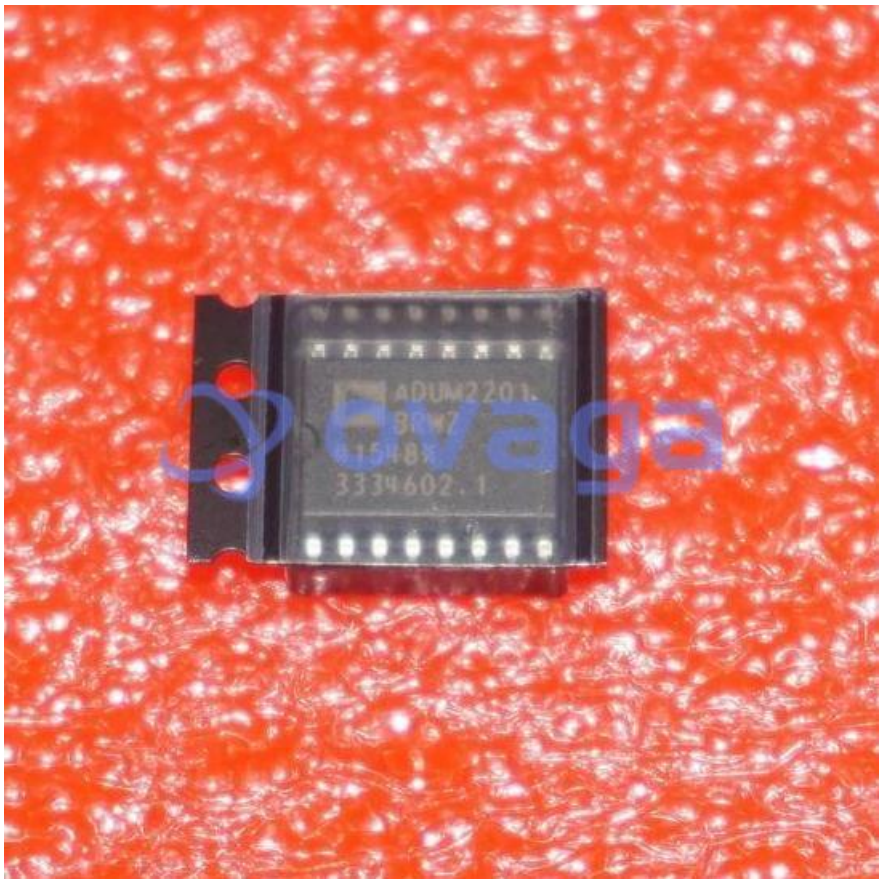
General-purpose, high voltage, multichannel isolation

Medical equipment

Power supplies

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

Hybrid electric vehicles, battery monitors, and motor drives



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

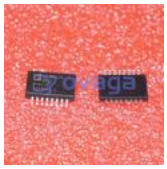
Analog Devices, Inc

QFN32

ADV7341BSTZ

Analog Devices, Inc

LQFP-64



ADUM4160BRIZ

Analog Devices, Inc

SOIC-16