

ADuM1201BRZ-RL7

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

Manufacturer:	Analog Devices, Inc	
Package/Case:	SOP8	ADuM1201BRZ-RL7 Image
Product Type:	Drivers	Images are for reference only Inquiry
RoHS:	RoHS Compliant/Lead free RoHS	inqui y
Lifecvcle:	Active	

General Description

The ADuM1201 is a dual-channel, digital isolator with 1/1 channel directionality based on the Analog Devices, Inc., iCoupler® technology. Combining high speed CMOS and monolithic transformer technologies, these isolation components provide 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 product 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.

Key Features	Application		
Narrow body, RoHS-compliant, SOIC 8-lead package	Size-critical multichannel isolation		
Low power operation	SPI interface/data converter isolation		
Bidirectional communication	RS-232/RS-422/RS-485 transceiver isolation		
3 V/5 V level translation	KS-232/KS-422/KS-463 transceiver isolation		
High temperature operation:125°C	Digital field bus isolation		
High data rate: dc to 25 Mbps (NRZ)	Hybrid electric vehicles, battery monitor, and motor drive		
Precise timing characteristics			
High common-mode transient immunity>25 kV/μs			
Automotive versions qualified per AEC-Q100			
See data sheet for additional features			







ADM3232EARUZ

Recommended For You

ADM3490EARZ ADuM3160BRWZ-RL

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SOP-8 SOP16 TSSOP-16

ADuM5211ARSZ ADV7623BSTZ ADuM1410BRWZ

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SSOP20 LQFP144 SOP16

ADM3251EARWZ ADM485ANZ

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ADUM6400ARWZ ADUM1281BRZ ADUM142E0BRZ

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