

Digital Isolator CMOS 7-CH 17MHZ 20-Pin SOIC W Tube

Manufacturers	Analog Devices, Inc
Package/Case	SOIC20
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM4151BRIZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADuM4151/ADuM4152/ADuM4153 are 7-channel, SPIsolator™ digital isolators optimized for isolated serial peripheral interfaces (SPIs). (3.75kV rms model available) Based on the Analog Devices, Inc., iCoupler® chip scale transformer technology, the low propagation delay in the CLK, MO/SI, MI/SO, and SS SPI bus signals supports SPI clock rates of up to 17 MHz. These channels operate with 14 ns propagation delay and 1 ns jitter to optimize timing for SPI.

The ADuM4151/ADuM4152/ADuM4153 isolators also provide three additional independent low data rate isolation channels in three different channel direction combinations. Data in the slow channels is sampled and serialized for a 250 kbps data rate with up to 2.5 μs of jitter in the low speed channels.

Features

Supports up to 17 MHz SPI clock speed

4 high speed, low propagation delay, SPI signal isolation channels

Three 250 kbps data channels

20-lead SOIC_IC package with 8.3 mm creepage

High temperature operation: 125°C

High common-mode transient immunity: >25 kV/μs

Safety and regulatory approvals

UL recognition per UL 1577

5000 V rms for 1 minute SOIC long package

CSA Component Acceptance Notice 5A

VDE certificate of conformity

DIN V VDE V 0884-10 (VDE V 0884-10):2006-12

Maximum working insulation voltage (VIORM): 849 V peak

Application

Industrial programmable logic controllers (PLCs)

Sensor isolation

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[AD724JR](#)

Analog Devices, Inc
SOIC-16



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



[ADV7341BSTZ](#)

Analog Devices, Inc
LQFP-64



[AD8170AR](#)

Analog Devices, Inc
SOP8



[ADV7393BCPZ](#)

Analog Devices, Inc
LFCSP-VQ-40



[ADV7390BCPZ](#)

Analog Devices, Inc
QFN32



[ADUM4160BRIZ](#)

Analog Devices, Inc
SOIC-16