Digital Isolator, 2 Channel, 162 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 ADUM2251ARWZ or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

The ADuM2250/ADuM2251 are hot swappable digital isolators with nonlatching, bidirectional communication channels and are compatible with I2C interfaces. This eliminates the need for splitting I2Csignals into separate transmit and receive signals for use with stand-alone optocouplers.

The ADuM2250 provides two bidirectional channels, supporting a complete isolated I2C interface. The ADuM2251 provides one bidirectional channel and one unidirectional channel for those applications where a bidirectional clock is not required.

The ADuM2250/ADuM2251 contain hot swap circuitry to prevent data glitches when an unpowered card is inserted onto an active bus.

These isolators are based on iCoupler® chip scale transformer technology from Analog Devices, Inc. iCoupler is a magnetic isolation technology with functional, performance, size, and power consumption advantages compared to optocouplers. The ADuM2250/ADuM2251 integrate iCoupler channels with semiconductor circuitry to enable a complete, isolated I2C interface provided in a small form factor.

Features

Bidirectional I2C communication

Open-drain interfaces

Suitable for hot swap applications

30 mA current sink capability

1000 KHz operation

3.0 V to 5.5 V supply/logic levels

16-lead SOIC wide body package version (RW-16)

16-lead SOIC wide body enhanced creepage version (RI-16-2)

High temperature operation: 105°C

Safety and regulatory approvals

UL recognition: 5000 V rms for 1 minute per UL 1577

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CSA Component Acceptance Notice 5A (RI-16-2 package)

Application

Isolated I2C, SMbus, or PMBus Interfaces

Multilevel I2C interfaces

Power supplies

Networking

Power over Ethernet

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

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