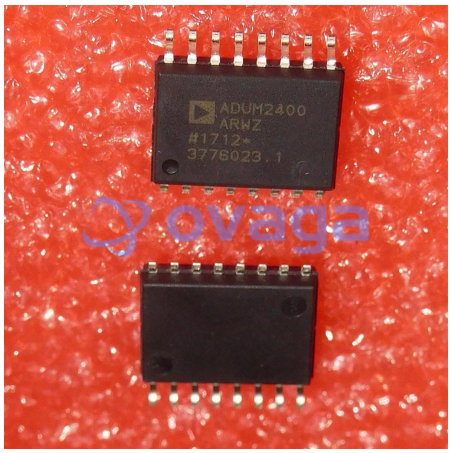
ADUM2400ARWZ

Data Sheet

Digital Isolator, Quad, 4 Channel, 100 ns, 2.7 V, 5.5 V, WSOIC, 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 ADUM2400ARWZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADuM2400/ADuM2401/ADuM2402 are 4-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 opto-couplers. 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. Furthermore, iCoupler devices run at one-tenth to one-sixth the power of optocouplers at comparable signal data rates.

The ADuM2400/ADuM2401/ADuM2402 isolators provide four independent isolation channels in a variety of channel configurations and data rates (see the Ordering Guide). The ADuM2400/ADuM2401/ADuM2402 models operate with the supply voltage of 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 ADuM2400/ADuM2401/ADuM2402 provide low pulse width distortion (<2 ns for CRWZ grade) and tight channel-to-channel matching (<2 ns for CRWZ grade). The ADuM2400/ADuM2401/ADuM2402 isolators have a patented refresh feature that ensures dc correctness in the absence of input logic transitions and during power-up/power-down conditions.

Features

Low power operation5 V operation (see data sheet)3 V operation (see data sheet)

Bidirectional communication

3 V/5 V level translation

High temperature operation: 105°C

High data rate: dc to 90 Mbps (NRZ)

Precise timing characteristics2 ns maximum pulse width distortion2 ns maximum channel-to-channel matching

See data sheet for additional features

Application

General-purpose, high voltage, multichannel isolation

Medical equipment

Motor drives

Power supplies

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

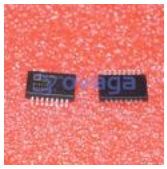
Analog Devices, Inc

QFN32

ADV7341BSTZ

Analog Devices, Inc

LQFP-64



ADUM4160BRIZ

Analog Devices, Inc

SOIC-16