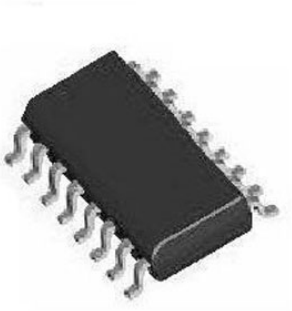
ADUM6404ARIZ

Data Sheet

Digital Isolator, 4 Channel, 55 ns, 3 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 ADUM6404ARIZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADuM640x devices are quad-channel digital isolators with isoPower®, an integrated, isolated DC/DC converter. Based on the Analog Devices, Inc., iCoupler® technology, the DC/DC converter provides up to 500 mW of regulated, isolated power at either 5.0 V or 3.3 V from a 5.0 V input supply, or 3.3 V from a 3.3 V supply at the power levels shown in Table 1. This eliminates the need for a separate, isolated DC/DC converter in low power, isolated designs. The iCoupler chip scale transformer technology is used to isolate the logic signals and for the magnetic components of the DC/DC converter. The result is a small form factor, total isolation solution.

The ADuM640x isolators provide four independent isolation channels in a variety of channel configurations and data rates (see the Ordering Guide for more information).

isoPower uses high frequency switching elements to transfer power through its transformer. Special care must be taken during printed circuit board (PCB) layout to meet emissions standards. Refer to the AN-0971 application note for board layout recommendations at www.analog.com.

Features

isoPower integrated, isolated DC/DC converter

Regulated 3.3 V or 5 V output

Up to 400 mW output power

Quad dc-to-25 Mbps (NRZ) signal isolation channels

Schmitt trigger inputs

16-lead SOIC package with 7.6 mm creepage

High temperature operation: 105°C

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

See data sheet for additional features

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

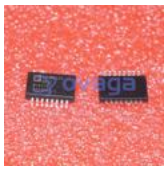
Analog Devices, Inc

QFN32

ADV7341BSTZ

Analog Devices, Inc

LQFP-64



ADUM4160BRIZ

Analog Devices, Inc

SOIC-16