

Isolator Interface IC Quad Channel Isolators w/Int DC/DC Conv

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-16
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADUM5401ARWZ-RL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADuM5401/ADuM5402/ADuM5403/ADuM5404 are quad-channel digital isolators with isoPower®, an integrated, isolated dc-to-dc converter. Based on the Analog Devices, Inc., iCoupler® technology, the dc-to-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 at 3.3 V from a 3.3 V supply at the power levels shown in Table 1. These devices eliminate the need for a separate, isolated dc-to-dc converter in low power, isolated designs. The iCoupler chip scale transformer technology is used to isolate the logic signals and for the power and feedback paths in the dc-to-dc converter. The result is a small form factor, total isolation solution.

The ADuM5401/ADuM5402/ADuM5403/ADuM5404 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. See the AN-0971 Application Note for board layout recommendations.

Features

isoPower integrated, isolated dc-to-dc converter

Regulated 3.3 V or 5.0 V output

Up to 500 mW output power

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

16-lead SOIC package with 7.6 mm creepage

High temperature operation: 105°C maximum

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

Safety and regulatory approvals

UL recognition

2500 V rms for 1 minute per UL 1577

CSA Component Acceptance Notice 5A

VDE certificate of conformity

IEC 60747-5-2 (VDE 0884, Part>

Application

RS-232/RS-422/RS-485 transceivers

Industrial field bus isolation

Power supply startup bias and gate drives

Isolated sensor interfaces

Industrial PLCs

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[AD724JR](#)

Analog Devices, Inc
SOIC-16



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



[ADV7341BSTZ](#)

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LQFP-64



[AD8170AR](#)

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SOP8



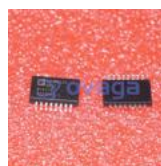
[ADV7393BCPZ](#)

Analog Devices, Inc
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