

Isolator Interface IC DUAL-CHANNEL ISOLATOR W/INTEGRATED DC/DC

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



Images are for reference only

Please submit RFQ for ADUM5200ARWZ-RL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADuM520x are dual 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 with 5.0 V input and 5.0 V output voltage, or 200 mW of power with 3.3 V input and 3.3 V output voltage. This eliminates the need for a separate isolated dc-to-dc converter in low power isolated designs. The Analog Devices chip scale transformer iCoupler technology is used for the isolation of the logic signals as well as for the dc-to-dc converter. The result is a small form factor, total isolation solution.

ADuM520x units may be used in combination with ADuM5401, ADuM5402, ADuM5403, ADuM5404 and ADuM5000 with isoPower® to achieve higher output power levels and greater channel counts (see the Increasing Available Power section).

The ADuM520x isolators provide two independent isolation channels in a variety of channel configurations and data rates (see the Ordering Guide for options).

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 details on board layout recommendations.

Features

For AEC-Q100 Automotive Qualified Devices Specifications Please View ADuM520xW Datasheet.

isoPower® integrated isolated DC/DC converter

Regulated 3V or 5V output

Up to 500 mW output power

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

Schmitt Trigger Inputs

16-lead SOIC package with >8 mm creepage

High temperature operation: 105°C maximum

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

Safety and regulatory approvalsUL recognition2500 V rms for 1 minute per UL 1577CSA component accept notice #5A
(pending)VDE cert of conformity (pending)DIN V VDE V 0884-10 (VDE V>

Application

RS-232/RS-422/RS-485 transceiver

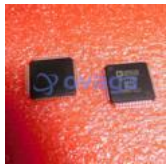
Industrial field bus isolation

Power supply startups and gate drives

Isolated sensor interfaces

Industrial PLCs

Related Products



[ADV7181CBSTZ](#)

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LQFP-64



[AD724JR](#)

Analog Devices, Inc
SOIC-16



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