

RS-422/RS-485 Interface IC Isolator RS-485 Transceiver I.C.

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-18
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADM2481BRWZ-RL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADM2481 is slew-limited to reduce reflections with improperly terminated transmission lines. The controlled slew rate limits the data rate to 500 kbps. The input impedance of the device is 96 k $\Omega$ , allowing up to 256 transceivers on the bus. Its driver has an active-high enable feature. The driver differential outputs and receiver differential inputs are connected internally to form a differential I/O port. When the driver is disabled or when VDD1 or >

The receiver inputs have a true fail-safe feature that ensures a logic-high receiver output level when the inputs are open or shorted. This guarantees that the receiver outputs are in a known state before communication begins and at the point when communication ends.

Current limiting and thermal shutdown features protect against output short circuits and bus contention situations that might cause excessive power dissipation. The part is fully specified over the industrial temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  and is available in a 16-lead, wide body SOIC package.

### Applications

Low power RS-485/RS-422 networks

Isolated interfaces

Building control networks

Multipoint data transmission systems

## Features

RS-485 transceiver with electrical data isolation

Complies with ANSI TIA/EIA-485-A and ISO 8482: 1987(E)

500 kbps data rate

Slew rate-limited driver outputs

Low power operation: 2.5 mA maximum

Suitable for 5 V or 3.3 V operations (VDD1)

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

See data sheet for additional features

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## Related Products



### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



### [ADV7391WBCPZ](#)

Analog Devices, Inc  
LFSCP-3



### [ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD8170AR](#)

Analog Devices, Inc  
SOP8



### [ADV7393BCPZ](#)

Analog Devices, Inc  
LFCSP-VQ-40



### [ADV7390BCPZ](#)

Analog Devices, Inc  
QFN32



### [ADUM4160BRIZ](#)

Analog Devices, Inc  
SOIC-16