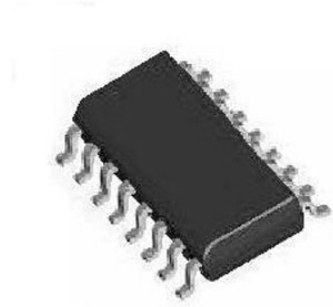


Isolator Interface IC Isolated HighSpeed RS-485 Transceiver IC

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



Images are for reference only

Please submit RFQ for ADM2486BRWZ-REEL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADM2486 differential bus transceiver is an integrated, galvanically isolated component designed for bidirectional data communication on multipoint bus transmission lines. It is designed for balanced transmission lines and complies with ANSI EIA/TIA-485-A and ISO 8482: 1987(E).

The device employs Analog Devices iCoupler® technology to combine a 3-channel isolator, a three-state differential line driver, and a differential input receiver into a single package. The logic side of the device is powered with either a 5 V or a 3 V supply, and the bus side uses an isolated 5 V supply.

The ADM2486 driver has an active-high enable feature. The driver differential outputs and the receiver differential inputs are connected internally to form a differential input/output port that imposes minimal loading on the bus when the driver is disabled or when VDD1 or >

The device has current-limiting and thermal shutdown features to protect against output short circuits and situations where bus contention may cause excessive power dissipation. The part is fully specified over the industrial temperature range and is available in a 16-lead, wide body SOIC package.

Features

Half-duplex, isolated RS-485 transceiver

PROFIBUS® compliant

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

20 Mbps data rate

5 V or 3 V operation (VDD1)

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

Isolated DE status output

Receiver open-circuit, fail-safe design

Thermal shutdown protection

50 nodes on bus

Safety and regulatory approvals

UL recognition—2500 Vrms for 1 minute per UL 1577

CSA Component Acceptance Notice #5A

IEC 609501 800 Vrms (basic), 400 Vrms (reinforced)

VDE Certificate of Conformity

DIN V VDE 0884-10 (VDE V 0884-10)>

Operating temperature range: -40°C to +85°C

Wide body, 16-lead SOIC package

Application

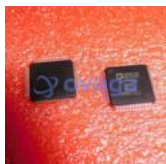
Isolated RS-485/RS-422 interfaces

PROFIBUS networks

Industrial field networks

Multipoint data transmission systems

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[AD724JR](#)

Analog Devices, Inc
SOIC-16



[AD8170AR](#)

Analog Devices, Inc
SOP8



[ADV7393BCPZ](#)

Analog Devices, Inc
LFCSP-VQ-40



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



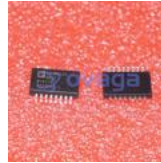
[ADV7390BCPZ](#)

Analog Devices, Inc
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc
LQFP-64



[ADUM4160BRIZ](#)

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SOIC-16