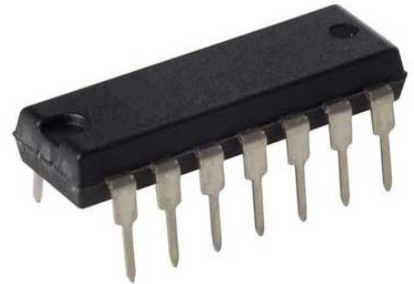


Full-Duplex, Low Power, Slew Rate Limited, EIA RS-485 Transceivers

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DIP-14
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADM489AN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

They are intended for balanced data transmission and comply with both EIA Standards RS-485 and RS-422. Both products contain a single differential line driver and a single differential line receiver making them suitable for full duplex data transfer.

The ADM489 contains an additional receiver and driver enable control.

The input impedance is 12 kohms, allowing 32 transceivers to be connected on the bus.

The ADM488/ADM489 operates from a single +5 V  $\pm$  10% power supply. Excessive power dissipation caused by bus contention or by output shorting is prevented by a thermal shutdown circuit. This feature forces the driver output into a high impedance state if during fault conditions a significant temperature increase is detected in the internal driver circuitry.

The receiver contains a fail-safe feature that results in a logic high output state if the inputs are unconnected (floating). The ADM488/ADM489 is fabricated on BiCMOS, an advanced mixed technology process combining low power CMOS with fast switching bipolar technology.

The ADM488/ADM489 is fully specified over the industrial temperature range and is available in DIP, SOIC and TSSOP packages.

## Features

Meets EIA RS-485 Standard

250 kbps Data Rate

Single 5 V  $\pm$  10% Supply

12 k $\Omega$  Input Impedance

2 kV EFT Protection Meets IEC1000-4-4

High EM Immunity Meets IEC1000-4-3

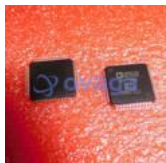
Reduced Slew Rate for Low EM Interference

Short Circuit Protection

Excellent Noise Immunity

30  $\mu$ A Supply Current

## 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



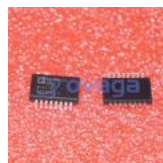
### [ADV7390BCPZ](#)

Analog Devices, Inc  
QFN32



### [ADV7341BSTZ](#)

Analog Devices, Inc  
LQFP-64



### [ADUM4160BRIZ](#)

Analog Devices, Inc  
SOIC-16