

Single Transmitter/Receiver RS-422/RS-485 16-Pin SOIC W T/R

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



Images are for reference only

Please submit RFQ for ADM2484EBRWZ-REEL7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADM2484E is an isolated data transceiver with ± 15 kVESD protection suitable for high speed, half- or full-duplex communication on multipoint transmission lines. For half-duplex operation, the transmitter outputs and receiver inputs share the same transmission line. Transmitter Output Pin Y links externally to Receiver Input Pin A, and Transmitter Output Pin Z links externally to Receiver Input Pin B.

Designed for balanced transmission lines, the ADM2484E complies with ANSI TIA/EIA RS-485-A-1998 and ISO 8482: 1987(E). The device employs Analog Devices, Inc., iCoupler® technology to combine a 3-channel isolator, a three-state differential line driver, and a differential input receiver into a single package.

The differential transmitter outputs and receiver inputs feature electrostatic discharge circuitry that provides protection up to ± 15 kV using the human body model (HBM). The logic side of the device can be powered with either a 5 V or a 3.3 V supply, whereas the bus side requires an isolated 3.3 V supply.

The device has current-limiting and thermal shutdown features to protect against output short circuits and situations where bus contention causes excessive power dissipation.

Applications

Isolated RS-485/RS-422 interfaces

Industrial field networks

INTERBUS

Multipoint data transmission systems

Features

Isolated, RS-485/RS-422 transceiver, configurable as half- or full-duplex

500 kbps data rate

Complies with ANSI TIA/EIA RS-485-A-1998 and ISO 8482: 1987(E)

Suitable for 5 V or 3.3 V operation (VDD1)

High common-mode transient immunity: >25 kV/ μ s

True fail-safe receiver inputs

256 nodes on the bus

Thermal shutdown protection

Safety and regulatory approvals

UL recognition

5000 V rms isolation voltage for 1 minute per UL1577

VDE certificate of conformity

DIN V VDE V 0884-10 (VDE V 0884-10): 2006-12

Reinforced insulation,>

CSA Component Acceptance Notice 5A

IEC 60950-1: 380 V rms (reinforced)

Operating temperature range: -40°C to $+85^{\circ}\text{C}$

Wide body, 16-lead SOIC package

Application

Isolated RS-485/RS-422 interfaces

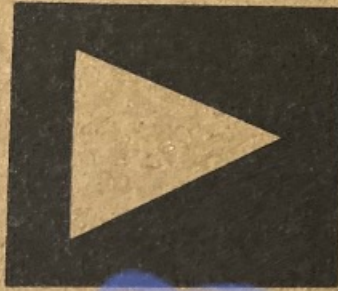
Industrial field networks

Multipoint data transmission systems

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

CAUTION
SENSITIVE ELECTRONIC DEVICES
DO NOT OPEN EXCEPT AT
APPROVED FIELD FORCE
PROTECTIVE WORK STATION

FRAGILE



ANALOG DEVICES

COUNTRY OF ASSEMBLY: TAIWAN, CHINA
COUNTRY OF DIFFUSION: TAIWAN, CHINA

(Q)QTY: 400



(9D)DATE CODE: 2218



(1T)LOT NUMBER:



(1P)MFG NO: ADM2484EBRWZ - REEL7



iCoupler[®]



MSL 1
PPBT = 260°C
83

Related Products



[ADV7181CBSTZ](#)

Analog Devices, Inc
LQFP-64



[ADV724JR](#)

Analog Devices, Inc
SOIC-16



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LFSCP-3



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SOP8



[ADV7393BCPZ](#)

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LFCSP-VQ-40



[ADV7390BCPZ](#)

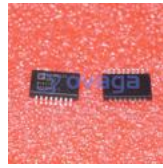
Analog Devices, Inc
QFN32



[ADV7341BSTZ](#)

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