

ADM2490EBRWZ

Data Sheet

High Speed, ESD-Protected, Full-Duplex, iCoupler, Isolated RS-485 Transceiver

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 ADM2490EBRWZ or Email to us; sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The ADM2490E is an isolated data transceiver with ± 8 kV ESD protection that is suitable for high speed, full-duplex communication on multipoint transmission lines. It is designed for balanced transmission lines and complies with ANSI TIA/EIA-485-A-1998 and ISO 8482: 1987(E). The device employs Analog Devices, Inc., iCoupler® technology to combine a 2-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 to ± 8 kV using the human body model (HBM). The logic side of the device can be powered with either a 5 V or a 3 V supply, whereas the bus side requires an isolated 5 V supply.

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

The ADM2490E is available in a wide body, 16-lead SOIC package and operates over the -40°C to +105°C temperature range.

Features

Isolated, full-duplex RS-485/RS-422 transceiver

16 Mbps data rate

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

Suitable for 5 V or 3 V operation (VDD1)

High common-mode transient immunity: $>25~kV/\mu s$

Receiver has open-circuit, fail-safe design

32 nodes on the bus

Thermal shutdown protection

Safety and regulatory approvals

UL recognition: 5000 V rms isolation voltage for 1 minute per UL 1577

VDE certificate of conformity

DIN EN 60747-5-2 (VDE 0884-10 Part 2): 2003-01

DIN EN 60950 (VDE 0805): 2001-12; EN 60950:>

Operating temperature range: -40°C to +105°C

Wide body, 16-lead SOIC package

Application

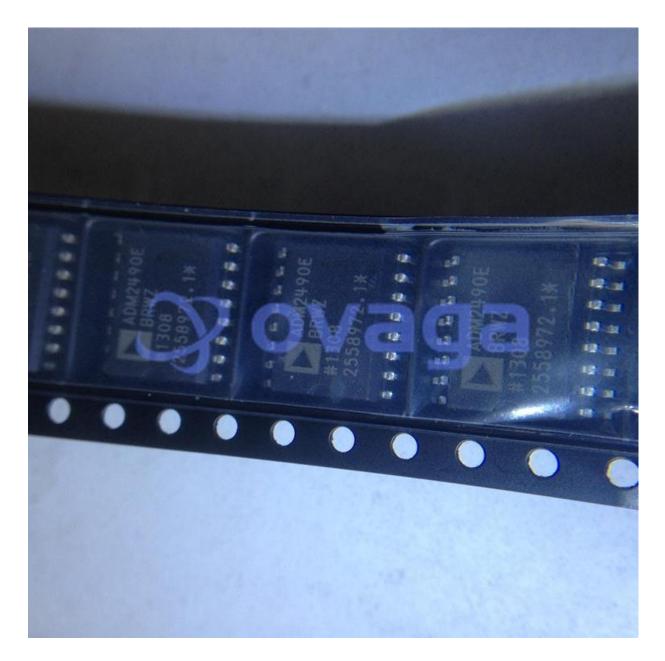
Isolated RS-485/RS-422 Interfaces

Industrial Field Networks

INTERBUS

Multipoint Data Transmission Systems





Related Products



ADV7181CBSTZ

Analog Devices, Inc
LQFP-64



AD724JR
Analog Devices, Inc
SOIC-16



ADV7391WBCPZ
Analog Devices, Inc
LFSCP-3



AD8170AR
Analog Devices, Inc
SOP8



ADV7393BCPZ
Analog Devices, Inc
LFCSP-VQ-40



ADV7390BCPZ
Analog Devices, Inc
QFN32



ADV7341BSTZ

Analog Devices, Inc
LQFP-64



Analog Devices, Inc SOIC-16