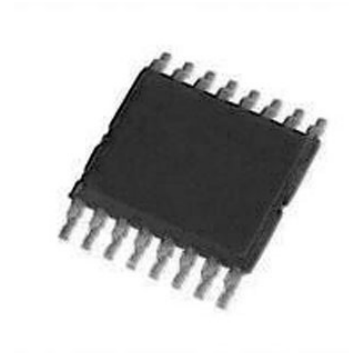


RS-422 Interface IC 15kV ESD Protected Dual RS-422 Xcvr

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



Images are for reference only

Please submit RFQ for ADM4168EBRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADM4168E is a dual RS-422 transceiver suitable for high speed communication on point to point and multidrop transmission lines. The ADM4168E is designed for balanced transmission lines and complies with TIA/EIA-422-B.

The differential driver outputs and receiver inputs feature electrostatic discharge (ESD) circuitry that provides protection up to ± 15 kV human body model (HBM) and ± 8 kV IEC 61000-4-2 (contact and air discharge).

The ADM4168E operates from a single 5 V power supply. Excessive power dissipation caused by bus contention or output shorting is prevented by short-circuit protection circuitry. Short-circuit protection circuits limit the maximum output current to -150 mA during fault conditions.

The receivers of the ADM4168E contain a fail-safe feature that results in a logic high output state if the inputs are unconnected (floating).

The ADM4168E is fully specified over the commercial and industrial temperature ranges and is available in a 16-lead TSSOP package.

Features

Dual RS-422 transceiver for ESD protection on bus input/output pins

Complies with TIA/EIA-422-B and ITU-T recommendation V.11

Open circuit fail-safe

Suitable for 5 V power supply applications

Low supply current operation: 9 mA maximum

Low driver output skew

Receiver line input resistance: 30 k Ω typical

Receiver common-mode range: -7 V to +7 V

Power-up/power-down without glitches

16-lead TSSOP package

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

Application

RS-422 interfaces

High data rate motor control

Single-ended to differential signal conversion

Point to point and multidrop transmission systems

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