ADM3075EARZ

Data Sheet

Transceiver RS422/RS485 Driver, Half Duplex, 500Kbs, ± 15kV ESD Protected, 2.97-3.63V supply, SOIC-8

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for ADM3075EARZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The ADM307xE are 3.3 V, low power data transceivers with ±15 kV ESD protection suitable for full- and half-duplex communication on multipoint bus transmission lines. They are designed for balanced data transmission, and they comply with TIA/EIA standards: RS-485 and RS-422.

The devices have a ⅛ unit load receiver input impedance, which allows up to 256 transceivers on a bus. Because only one driver should be enabled at any time, the output of a disabled or powered-down driver is tristated to avoid overloading the bus.

The receiver inputs have a true fail-safe feature, which eliminates the need for external bias resistors and ensures a logic high output level when the inputs are open or shorted. This guarantees that the receiver outputs are in a known state before communication begins and when communication ceases.

Features

TIA/EIA RS-485/RS-422 compliant

Data rates

Half- and full-duplex options

True fail-safe receiver inputs

Up to 256 nodes on the bus

Hot-swap input structure on DE and RE pins

Reduced slew rates for low EMI

Low power shutdown current (all except ADM3071E/ ADM3074E/ADM3077E)

Outputs high-Z when disabled or powered off

Common-mode input range: −7 V to +12 V

Thermal shutdown and short-circuit protection

8-lead and 14-lead narrow SOIC packages

Application

Power/energy metering

Industrial control

Lighting systems

Telecommunications

Security systems

Instrumentation

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