

Transceiver RS422/RS485 Driver, Half Duplex, 500Kbs, $\pm 15\text{kV}$ 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](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADM307xE are 3.3 V, low power data transceivers with $\pm 15\text{ kV}$ 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 $\frac{1}{8}$ 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

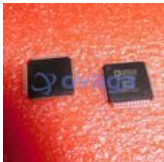
Lighting systems

Telecommunications

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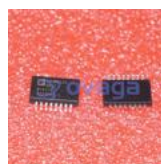
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