
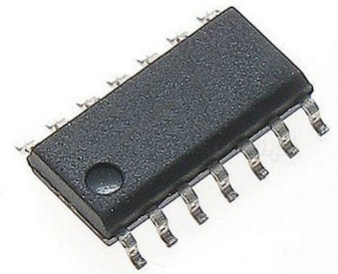


Single Transmitter/Receiver RS-422/RS-485 14-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP14
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

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 $\frac{1}{8}$ 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.

Key Features

- TIA/EIA RS-485/RS-422 compliant
- Data rates
- ADM3076E//: 16 Mbps
- 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

Recommended For You

ADM3490EARZ

Analog Devices, Inc
SOP-8

ADuM3160BRWZ-RL

Analog Devices, Inc
SOP16

ADM3232EARUZ

Analog Devices, Inc
TSSOP-16

ADuM5211ARSZ

Analog Devices, Inc
SSOP20

ADuMI201BRZ-RL7

Analog Devices, Inc
SOP8

ADV7623BSTZ

Analog Devices, Inc
LQFP144

ADuMI410BRWZ

Analog Devices, Inc
SOP16

AD698APZ

Analog Devices, Inc
PLCC28

ADM3251EARWZ

Analog Devices, Inc
SOP20

ADM485ANZ

Analog Devices, Inc
DIP

ADuM6400ARWZ

Analog Devices, Inc
SOP16

ADuMI281BRZ

Analog Devices, Inc
SOP8

ADUMI42E0BRZ

Analog Devices, Inc
SOP-16

ADuMI412BRWZ

Analog Devices, Inc
SOP16

ADV7622BSTZ

Analog Devices, Inc
TQFP144