

High Speed, +5 V, 0.1 uF CMOS RS-232 Drivers/Receivers

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-18
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADM242AR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADM222, ADM232A, ADM242 are a family of high-speed RS-232 line drivers/receivers offering transmission rates up to 200 kB/s. Operating from a single 5 V power supply, a highly efficient on-chip charge pump using small (0.1  $\mu$ F) external capacitors allows RS-232 bipolar levels to be developed. Two RS-232 drivers and two RS-232 receivers are provided on each device.

The devices are fabricated on BiCMOS, an advanced mixed technology process that combines low power CMOS with high speed bipolar circuitry. This allows for transmission rates up to 200 kB/s, yet minimizes the quiescent power supply current to under 5 mA.

The ADM232A is a pin-compatible, high-speed upgrade for the AD232 and for the ADM232L. It is available in 16-lead DIP and in both narrow and wide surface-mount (SOIC) packages.

The ADM222 contains an additional shutdown (SHDN) function that may be used to disable the device, thereby reducing the supply current to 0.1  $\mu$ A. During shutdown, all transmit/receive functions are disabled. The ADM222 is available in 18-lead DIP and in a wide surface-mount (SOIC) package.

The ADM242 combines both shutdown (SHDN) and enable (EN) functions. The shutdown function reduces the supply current to 0.1 mA. During shutdown, the transmitters are disabled but the receivers continue to operate normally. The enable function allows the receiver outputs to be disabled thereby facilitating sharing a common bus. The ADM242 is available in 18-lead DIP and in a wide surface-mount (SOIC) package.

## Features

200 kB/s transmission rate

Small (0.1  $\mu$ F) charge pump capacitors

Single 5 V power supply

Meets all EIA-232-E and V.28 specifications

Two drivers and two receivers

On-board DC-DC converters

9 V output swing with 5 V supply

30 V receiver input levels

Pin compatible with MAX222/MAX232A/MAX242

## Application

Computers

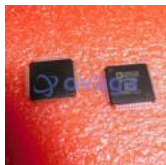
Peripherals

Modems

Printers

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## Related Products



### [ADV7181CBSTZ](#)

Analog Devices, Inc  
LQFP-64



### [AD724JR](#)

Analog Devices, Inc  
SOIC-16



### [ADV7391WBCPZ](#)

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LFSCP-3



### [ADV7341BSTZ](#)

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### [AD8170AR](#)

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QFN32



### [ADUM4160BRIZ](#)

Analog Devices, Inc  
SOIC-16