

Transceiver RS232, 2 Drivers, Half Duplex, 1.8V-5.5V supply, DFN-16

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-16
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2803IDHC#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC2801/LTC2802/LTC2803/LTC2804 are single and dual RS-232 transceivers in narrow SSOP and chip-scale DFN packages. All operate over a supply range of 1.8V to 5.5V, which permits operation directly from two alkaline, NiCd or NiMH cells. An integrated DC-to-DC converter generates power supplies for driving RS-232 levels. A logic supply pin allows easy interfacing with different logic levels independent of the DC-DC supply.

These parts are compatible with the TIA/EIA-232-F standard. Driver outputs are protected from overload and can be shorted to ground or up to  $\pm 15V$  without damage. To extend battery life, receivers can be kept active, operating at reduced speed, with only 15 $\mu A$  current. In shutdown mode, current is further reduced to 1 $\mu A$ .

Part Number	Driver & Receivers	Max Data Rate	Modes	Package
LTC2801	1 + 10.25Mbps	SD, RA, DD	AODFN-12	
LTC2802	1 + 11Mbps	SD, RA, DD	AODFN - 12	
LTC2803	2 + 20.25Mbps	SD, RA, DD	AODFN-16	
LTC2803-12	2 + 20.25Mbps	SD, AOSSOP-16		
LTC2804	2 + 21Mbps	SD, RA, DD	AODFN-16	
LTC2804-12	2 + 21Mbps	SD, AOSSOP-16		

## Features

1.8V to 5.5V Supply Voltage

Single and Dual Transceivers

High-Speed Operation

1Mbps for 250pF/3k $\Omega$  Load (LTC2802, LTC2804)

250kbps for 1nF/3k $\Omega$  Load

100kbps for 2.5nF/3k $\Omega$  TIA/EIA-232-F Load

Low-Power 1 $\mu$ A Shutdown and 15 $\mu$ A Receivers-Active Modes

No Damage or Latchup to  $\pm$ 10kV ESD on RS-232 Interface

Logic Supply Pin for Easy Level-Shifting to UART or Microprocessor

Low-Latency Output Enable Allows Line Sharing and Half-Duplex Operation

True RS-232 Compliant Output Levels

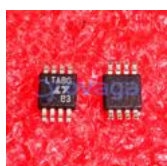
Small Footprint:

LTC2801/LTC2802 4mm  $\times$  3mm DFN Package

LTC2803/LTC2804 Narrow SSOP-16

5mm  $\times$  3mm DFN Packages

## Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc  
MSOP8



[LTC2870IFE#PBF](#)

Analog Devices, Inc  
TSSOP28



[LTC6820HMS#PBF](#)

Analog Devices, Inc  
MSOP-16



[LTC2870IUFD#PBF](#)

Analog Devices, Inc  
28-QFN



[LTC6820IMS#PBF](#)

Analog Devices, Inc  
MSOP16



[LTM2881IV-3#PBF](#)

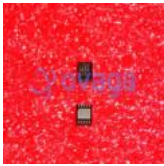
Analog Devices, Inc  
LGA32

## Application

Battery-Powered Systems

Computers and Consumer Electronics

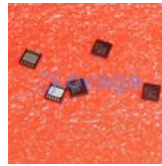
Diagnostic Ports



[LTC2854HDD#PBF](#)

Analog Devices, Inc

QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc

DFN10