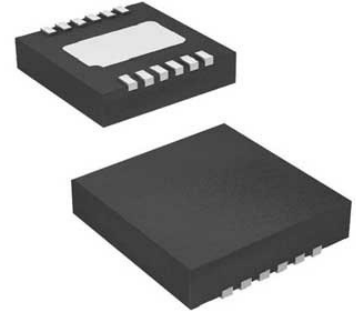


Single Transmitter/Receiver RS-232 Automotive 12-Pin DFN EP Tube

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | DFN-12 |
| Product Type | Interface ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LTC2801IDE#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 μA current. In shutdown mode, current is further reduced to 1 μA .

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

Features

1.8V to 5.5V Supply Voltage

Single and Dual Transceivers

High-Speed Operation

1Mbps for 250pF/3k Ω Load (LTC2802, LTC2804)

250kbps for 1nF/3k Ω Load

100kbps for 2.5nF/3k Ω TIA/EIA-232-F Load

Low-Power 1 μ A Shutdown and 15 μ 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

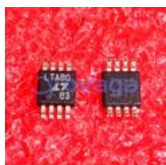
Application

Battery-Powered Systems

Computers and Consumer Electronics

Diagnostic Ports

Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



[LTC2870IUFD#PBF](#)

Analog Devices, Inc
28-QFN



[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



[LTC6820IMS#PBF](#)

Analog Devices, Inc
MSOP16



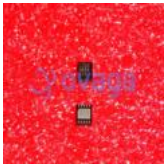
[LTC6820HMS#PBF](#)

Analog Devices, Inc
MSOP-16



[LTM2881IV-3#PBF](#)

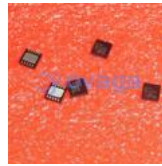
Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

Analog Devices, Inc

QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc

DFN10