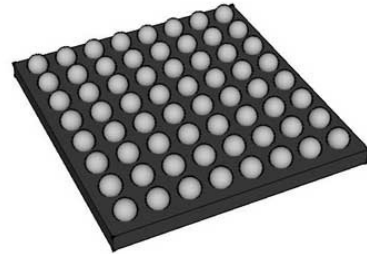


Transceiver RS232, 2 Drivers, 4.5V-5.5V supply, BGA-32

Manufacturers	Analog Devices, Inc
Package/Case	32-BBGA
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM2882IY-5#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM2882 is a complete galvanically isolated dual RS232 μ Module[®] (micromodule) transceiver. No external components are required. A single 3.3V or 5V supply powers both sides of the interface through an integrated, isolated DC/DC converter. A logic supply pin allows easy interfacing with different logic levels from 1.62V to 5.5V, independent of the main supply.

Coupled inductors and an isolation power transformer provide 2500V_{RMS} of isolation between the line transceiver and the logic interface. This device is ideal for systems with different grounds, allowing for large common mode voltages. Uninterrupted communication is guaranteed for common mode transients greater than 30kV/ μ s.

This part is compatible with the TIA/EIA-232-F standard. Driver outputs are protected from overload and can be shorted to ground or up to ± 15 V without damage. An auxiliary isolated digital channel is available. This channel allows configuration for half-duplex operation by controlling the DE pin.

Enhanced ESD protection allows this part to withstand up to ± 10 kV (human body model) on the transceiver interface pins to isolated supplies and across the isolation barrier to logic supplies without latch-up or damage.

Applications

Features

RS232 Transceiver: 2500V

RMS

UL-CSA Recognized File #E151738

CSA Component Acceptance Notice 5A

Isolated DC Power: 5V at Up to 200mA

No External Components Required

1.62V to 5.5V Logic Supply for Flexible Digital Interfacing

High Speed Operation

1Mbps for 250pF/3k Ω Load

250kbps for 1nF/3k Ω Load

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

3.3V (LTM2882-3) or 5V (LTM2882-5) Operation

No Damage or Latchup to ± 10 kV HBM ESD on Isolated RS232 Interface or Across Isolation Barrier

High Common Mode Transient Immunity: 30kV/ μ s

Maximum Continuous Working Voltage: 560V

PEAK

True RS232 Compliant Output Levels

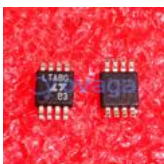
15mm \times 11.25mm BGA and LGA Packages

1Mbps for 250pF/3k Ω Load

250kbps for 1nF/3k Ω Load

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

Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



[LTC2870IUFD#PBF](#)

Analog Devices, Inc
28-QFN

Application

Isolated RS232 Interface

Industrial Communication

Test and Measurement Equipment

Breaking RS232 Ground Loops



[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



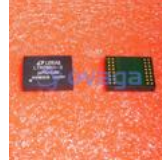
[LTC6820IMS#PBF](#)

Analog Devices, Inc
MSOP16



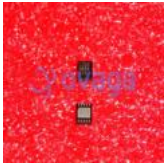
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Analog Devices, Inc
MSOP-16



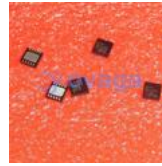
[LTM2881IV-3#PBF](#)

Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

Analog Devices, Inc
QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc
DFN10