

Single Transmitter/Receiver RS-422/RS-485 Automotive 8-Pin SOIC N Tube

Manufacturers	Analog Devices, Inc
Package/Case	SOIC8
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2850IS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2850, LTC2851 and LTC2852 are low power, 20Mbps RS485/RS422 transceivers operating on 3.3V supplies. The receiver has a one-eighth unit load supporting up to 256 nodes per bus (C, I-grade), and a failsafe feature that guarantees a high output state under conditions of floating or shorted inputs.

The driver maintains a high output impedance over the entire common mode range when disabled or when the supply is removed. Excessive power dissipation caused by bus contention or a fault is prevented by current limiting all outputs and by thermal shutdown.

Enhanced ESD protection allows these parts to withstand up to $\pm 15\text{kV}$ (human body model) on the transceiver interface pins without latchup or damage.

Features

3.3V Supply Voltage

20Mbps Maximum Data Rate

No Damage or Latchup Up to $\pm 15\text{kV}$ HBM

High Input Impedance Supports 256 Nodes (C, I-Grade)

Operation Up to 125°C (H-Grade)

Guaranteed Failsafe Receiver Operation Over the Entire Common Mode Range

Current Limited Drivers and Thermal Shutdown

Delayed Micropower Shutdown: $5\mu\text{A}$ Maximum (C, I-Grade)

Power Up/Down Glitch-Free Driver Outputs

Low Operating Current: $370\mu\text{A}$ Typical in Receive Mode

Compatible with TIA/EIA-485-A Specifications

Available in 8-Pin and 10-Pin $3\text{mm} \times 3\text{mm}$ DFN, 8-Pin and 10-Pin MSOP, and 8-Pin and 14-Pin SO Packages

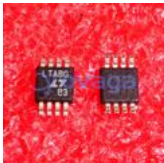
Application

Low Power RS485/RS422
Transceiver

Level Translator

Backplane Transceiver

Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



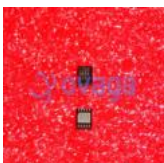
[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



[LTC6820HMS#PBF](#)

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MSOP-16



[LTC2854HDD#PBF](#)

Analog Devices, Inc
QFN-10



[LTC2870IUFD#PBF](#)

Analog Devices, Inc
28-QFN



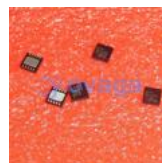
[LTC6820IMS#PBF](#)

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MSOP16



[LTM2881V-3#PBF](#)

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LGA32



[LTC2852IDD#PBF](#)

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DFN10