

Transceiver RS422/RS485, 20 Mbps, 3V-3.6V supply, DFN-10

Manufacturers	Analog Devices, Inc
Package/Case	10-WDFN
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2854IDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2854 and LTC2855 are low power, 20Mbps RS485/RS422 transceivers operating on 3.3V supplies. The receiver includes a logic-selectable 120Ω termination, one-eighth unit load supporting up to 256 nodes per bus (C-, I-Grade), and a fail-safe 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 a thermal shutdown.

Enhanced ESD protection allows the LTC2854 to withstand ±25kV (human body model) and the LTC2855 to withstand ±15kV on the transceiver interface pins without latchup or damage.

Part Number Duplex Package LTC2854 Half DFN-10 LTC2855 Full SSOP-16, DFN-12

Features

Integrated, Logic-Selectable 120Ω Termination Resistor

3.3V Supply Voltage

20Mbps Maximum Data Rate

No Damage or Latchup Up to ±25kV HBM

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

Operation Up to 125°C (H-Grade)

Guaranteed Fail-safe Receiver Operation Over the Entire Common Mode Range

Current Limited Drivers and Thermal Shutdown

Delayed Micropower Shutdown: 5μA Maximum (C-, I-Grade)

Power Up/Down Glitch-Free Driver Outputs

Low Operating Current: 370μA Typical in Receive Mode

Compatible with TIA/EIA-485-A Specifications

Available in 10-Pin 3mm × 3mm DFN, 12-Pin 4mm × 3mm DFN and 16-Pin SSOP Packages

Application

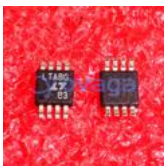
Low Power RS485/RS422 Transceiver

Level Translator

Backplane Transceiver



Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



[LTC6820HMS#PBF](#)

Analog Devices, Inc
MSOP-16



[LTC2870IUFD#PBF](#)

Analog Devices, Inc
28-QFN



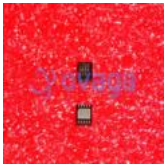
[LTC6820IMS#PBF](#)

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MSOP16



[LTM2881IV-3#PBF](#)

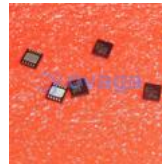
Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

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QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc

DFN10