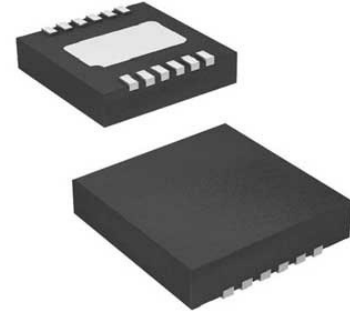


±60V Fault Protected 3V to 5.5V RS485/RS422 Transceivers

Manufacturers	Analog Devices, Inc
Package/Case	12-Lead DFN (4mm x 3mm w/ EP)
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2865HDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2862/LTC2863/LTC2864/LTC2865 are low power, 20Mbps or 250kbps RS485/RS422 transceivers operating on 3V to 5.5V supplies that feature ±60V overvoltage fault protection on the data transmission lines during all modes of operation, including power-down. Low EMI slew rate limited data transmission is available in a logic-selectable 250kbps mode in the LTC2865 and in 250kbps versions of the LTC2862-LTC2864. Enhanced ESD protection allows these parts to withstand ±15kV HBM on the transceiver interface pins without latch-up or damage.

Extended ±25V input common mode range and full fail-safe operation improve data communication reliability in electrically noisy environments and in the presence of large ground loop voltages.

Part Number	Duplex	Enables	Max Data Rate	VL Pin	LTC2862-1	Half	Yes	20M	No	LTC2862-2	Half	Yes	250k	No	LTC2863-1	Full	No	20M	No	LTC2863-2	Full	No	250k	No	LTC2864-1	Full	Yes	20M	No	LTC2864-2	Full	Yes	250k	No	LTC2865	Full	Yes	20M/250k	Yes
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Features

Protected from Overvoltage Line Faults to $\pm 60V$

3V to 5.5V Supply Voltage

20Mbps or Low EMI 250kbps Data Rate

Extended Common Mode Range: $\pm 25V$

Guaranteed Fail-safe Receiver Operation

High Input Impedance Supports 256 Nodes

1.65V to 5.5V Logic Supply Pin (VL) for Flexible Digital Interface (LTC2865)

MP-Grade Option Available ($-55^{\circ}C$ to $125^{\circ}C$)

Fully Balanced Differential Receiver Thresholds for Low Duty Cycle Distortion

Current Limited Drivers and Thermal Shutdown

Pin Compatible with LT1785 and LT1791

Available in DFN and Leaded Packages

Application

Supervisory Control and Data Acquisition (SCADA)

Industrial Control and Instrumentation Networks

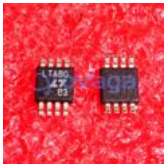
Automotive and Transportation Electronics

Building Automation, Security Systems and HVAC

Medical Equipment

Lighting and Sound System Control

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



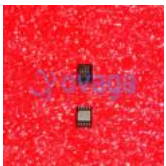
[LTC6820HMS#PBF](#)

Analog Devices, Inc
MSOP-16



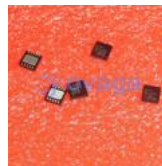
[LTM2881IV-3#PBF](#)

Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

Analog Devices, Inc
QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc
DFN10