

LTC2870HUFD#PBF

Data Sheet

<u>RFO</u>

RS232/RS485 Multiprotocol Transceivers with Integrated Termination

| Manufacturers | Analog Devices, Inc | |
|---------------|--|-------------------------------|
| Package/Case | 28-Lead QFN (4mm x 5mm x 0.75mm w/ EP) | FEEFE JUJU |
| Product Type | Interface ICs | |
| RoHS | | |
| Lifecycle | | Images are for reference only |
| | | |

General Description

The LTC2870/LTC2871 are robust pin-configurable multiprotocol transceivers, supporting RS232, RS485, and RS422 protocols, operating on a single 3V to 5.5V supply. The LTC2870 can be configured as two RS232 single-ended transceivers or one RS485 differential transceiver on shared I/O lines. The LTC2871 offers independent control of two RS232 transceivers and one RS485 transceiver, each on dedicated I/O lines.

Please submit RFQ for LTC2870HUFD#PBF or Email to us: sales@oyaga.com We will contact you in 12 hours.

Pin-controlled integrated termination resistors allow for easy interface reconfiguration, eliminating external resistors and control relays. Half-duplex switches allow four-wire and two-wire RS485 configurations. Loopback mode steers the driver inputs to the receiver outputs for diagnostic self-test. The RS485 receivers support up to 256 nodes per bus, and feature full failsafe operation for floating, shorted or terminated inputs.

An integrated DC/DC boost converter uses a tiny $2mm \times 1.6mm$ inductor and one capacitor, eliminating the need for multiple supplies for driving RS232 levels.

Features

One RS485 and Two RS232 Transceivers

3V to 5.5V Supply Voltage

20Mbps RS485 and 500kbps RS232

Automatic Selection of Integrated RS485 (120 Ω) and RS232 (5k Ω) Termination Resistors

Half-/Full-Duplex RS485 Switching

High ESD: ±26kV (LTC2870), ±16kV (LTC2871)

Logic Loopback Mode

1.7V to 5.5V Logic Interface

Supports Up to 256 RS485 Nodes

RS485 Receiver Failsafe Eliminates UART Lockup

H-Grade Available (-40°C to 125°C)

Available in 28-Pin 4mm \times 5mm QFN and TSSOP (LTC2870), and 38-Pin 5mm \times 7mm QFN and TSSOP (LTC2871)

Related Products



LTC4300A-11MS8#PBF Analog Devices, Inc MSOP8



LTC2870IFE#PBF Analog Devices, Inc TSSOP28



LTC6820HMS#PBF Analog Devices, Inc

MSOP-16



LTC2854HDD#PBF Analog Devices, Inc QFN-10

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LTC2852IDD#PBF Analog Devices, Inc DFN10

LTC2870IUFD#PBF

Analog Devices, Inc

LTC6820IMS#PBF

Analog Devices, Inc

LTM2881IV-3#PBF

Analog Devices, Inc

28-QFN

MSOP16

LGA32

Application

Software Selectable RS232/RS485/RS422 Interface

Point-of-Sale Terminals

Cable Repeaters

Protocol Translators