

Transceiver RS232/RS485, 2 Drivers, 4.75V-5.25V supply, SSOP-20

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | SSOP20 |
| Product Type | Interface ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LTC1387CG#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1387 is a low power reconfigurable CMOS bidirectional transceiver. It can be configured as an RS485 differential port or as two RS232 single-ended ports. An onboard charge pump uses four 0.1 μF capacitors to generate boosted positive and negative supplies, allowing the RS232 drivers to meet $\pm 5\text{V}$ output swing requirements with only a single 5V supply. A shutdown mode reduces the ICC supply current to 5 μA .

The RS232 transceivers are in full compliance with RS232 specification. The RS485 transceiver is in full compliance with RS485 and RS422 specifications. The RS485 receiver assumes a known output state when the inputs are floating or shorted to ground. All interface drivers feature short-circuit and thermal shutdown protection. An enable pin allows RS485 driver outputs to be forced into high impedance which is maintained even when the outputs are forced beyond supply rails or the power is off. A loop back mode allows the driver outputs to be connected back to the receiver inputs for diagnostic self-test.

The LTC1387 is available in 20-pin plastic SSOP and SW packages.

Features

Two RS232 Transceivers or One RS485 Transceiver

Operates from a Single 5V Supply

Guaranteed Receiver Output with Inputs Floating or Shorted to Ground

Logic Selectable Fast/Slow RS485 Driver Slew Rate

Low Supply Current: 7mA Typical

5 μ A Supply Current in Shutdown

Self-Testing Capability in Loopback Mode

Separate Driver and Receiver Enable Controls

Driver Maintains High Impedance in Three-State, Shutdown or with Power Off

Receiver Inputs Can Withstand \pm 25V

Application

Point-of-Sale Terminals

Software Selectable Multiprotocol Interface Ports

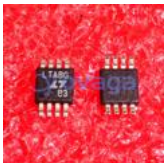
Low Power RS485/RS422/RS232/EIA562 Interface

Cable Repeaters

Level Translators



Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



[LTC6820HMS#PBF](#)

Analog Devices, Inc
MSOP-16



[LTC2870IUFD#PBF](#)

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28-QFN



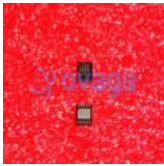
[LTC6820IMS#PBF](#)

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[LTM2881IV-3#PBF](#)

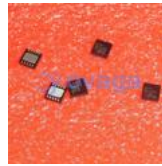
Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

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QFN-10



[LTC2852IDD#PBF](#)

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DFN10