



## **RS422/RS485 Transceivers Guaranteed over High Temperatures for Automotive Applications**

MILPITAS, CA – December 17, 2007 – Linear Technology Corporation expands the RS422/RS485 transceiver product family with an “H-grade” option designed for high temperature applications. LTC285xH versions feature an extended operating temperature of -40°C to 125°C, as well as the attributes traditionally required for these applications. The new temperature grade broadens Linear’s line of industry-standard low power CMOS transceivers, and helps ensure reliable data transmission in harsh environmental conditions commonly posed by automotive applications.

Linear offers a wide selection of LTC285xH transceivers. Select models feature slew rate limiting, while others include a receiving logic-selectable 120Ohm termination. All devices are designed to operate in systems with 3.3V or 5V supplies, possess a maximum data rate of 20Mbps and maintain a high input impedance capable of supporting up to 256 nodes. In addition, enhanced ESD protection guarantees that no damage or latchup can occur up to ±15kV HBM. These features, coupled with a wide operating window, make the LTC285xH family suitable for an array of automotive applications including level translation, backplane transceiving and low power RS422/RS485 transceiving.

The LTC285x family has a variety of ordering options. Aside from the H-grade version, “C” and “I” versions offer more relaxed operating temperature ranges, from 0°C to 70°C and -40°C to 85°C, respectively. Half-and full-duplex versions are available as well. Industry-standard packages include an 8-lead 3mm x 3mm DFN, SO-8, MSOP-10 and SSOP-16, all of which are RoHS compliant. Pricing starts at \$1.91 each in 1,000 piece quantities. Now shipping in production volume LTC285xH transceivers complement Linear’s growing Interface product line. Visit [www.linear.com](http://www.linear.com) for additional product selection and information.

**Photo Caption:** High Temperature RS422/RS485 Low Power Transceivers

**Summary of Features: LTC2850/LTC2851/LTC2852/LTC2854/LTC2855/LTC2856/  
LTC2857/LTC2858**

- 3.3V Supply Voltage
- Integrated, Logic-Selectable 120Ohm Termination Resistor (LTC2854/LTC2855)
- 20Mbps Maximum Data Rate
- No Damage or Latchup up to  $\pm 25\text{kV}$  HBM ESD (LTC2854)
- High Input Impedance Supports 256 Nodes
- Guaranteed Failsafe Receiver Operation over the Entire Common Mode Range
- 8/10-pin DFN, 8/10-Pin MSOP & 8/14-Pin SO Packages (LTC2850/LTC2851/LTC2852)

**About Linear Technology**

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P 500 index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, uModule™ products, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit [www.linear.com](http://www.linear.com).

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