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 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 ±25kV 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.

LT, LTC, LTM and are registered trademarks and uModule is a trademark of Linear Technology Corp.

Press Contacts:

John Hamburger, Director Marketing Communications
jhamburger@linear.com
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
Tel: 408-432-1900 ext 2233