

LTC News for Immediate Release

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Switchable, Integrated Termination Simplifies RS485 Networks

MILPITAS, CA – March 9, 2006– Linear Technology Corporation introduces the LTC2859 and LTC2861, half-duplex and full-duplex RS485 transceivers with switchable, integrated termination. Traditional RS485 networks require 120-Ohm termination resistors to be installed by the end user based on the physical layout of the twisted-pair wires and the placement of the nodes. As the bus is extended, the termination must be changed again by the end user. Switching the integrated termination in the LTC2859/LTC2861 on or off under software control allows the proper nodes to be terminated without the end user's physical intervention.

In addition to the innovative termination capacity, the LTC2859/LTC2861 offer advanced transceiver features for industrial, medical and automotive applications. A slew rate control pin allows data rates up to 20Mbps or a low-EMI mode at 250kbps. The bus pin protection exceeds $\pm 15\text{kV}$ for ESD strikes (Human Body Model). The receiver input impedance allows up to 256 nodes on a single bus. These features provide more functionality than existing RS485 transceivers and the integrated termination combined with the tiny DFN package provide a smaller solution overall.

Specified over the commercial and industrial temperature ranges, the LTC2859 is offered in the 10-lead (3mm x 3mm) DFN package and the LTC2861 is offered in the 12-lead (4mm x 3mm) DFN and 16-lead SSOP packages. Pricing begins at \$1.55 each in 1,000-piece quantities.

Photo Caption: RS485 with Integrated Termination**Summary of Features: LTC2859/LTC2861**

- Integrated, Logic-Selectable 120 Ω Termination Resistor
- No Damage or Latchup to ESD: $\pm 15\text{kV}$ HBM
- 20Mbps Max Data Rate
- 250kbps Low-EMI Mode
- High Input Impedance Supports 256 Nodes
- Guaranteed Failsafe Receiver Operation Over the Entire Common Mode Range
- Available in 10-Pin 3mm x 3mm DFN, 12-Pin 4mm x 3mm DFN and 16-Pin SSOP Packages

Company Background

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, 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

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