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Rugged RS485/RS422 Transceivers Operate up to 20MBps or 250kbps for Low EMI

MILPITAS, CA – August 29, 2006 – Linear Technology Corporation introduces the LTC2856/LTC2857/LTC2858 low power RS485/422 transceivers, operating on 5V supplies. The LTC2856-1, LTC2857-1 and LTC2858-1 operate at maximum data rates of 20MBps, while the LTC2856-2, LTC2857-2 and LTC2858-2 feature 250kbps slew rate limited driver outputs to control high frequency emission from equipment and data cables. Enhanced ESD protection on the transceiver interface pins allows the ICs to withstand $\pm 15\text{kV}$ for ESD strikes (Human Body Model) without latchup or damage. The receiver fail-safe feature further enhances the devices' operation by guaranteeing a high output state under conditions of floating or shorted inputs.

The receivers of the LTC2856/LTC2857/LTC2858 have a one-eighth unit load, supporting up to 256 devices on the bus, while the drivers of all ICs maintain a high output impedance over the entire common mode range when disabled or when the supply is removed. Excessive power dissipation caused by bus contention or a fault is prevented by current limiting all outputs and by thermal shutdown.

The rich combination of features makes the LTC2856/LTC2857/LTC2858 an ideal fit across various applications in the consumer, industrial, medical and automotive markets. The ICs are offered in 8-pin and 10-pin MSOP and 3mm x 3mm DFN packages. Specified over the commercial and industrial temperature ranges and available from stock, pricing for the LTC2856/LTC2857/LTC2858 begins at \$1.45 each in 1000-piece quantities.


Photo Caption: 20Mbps and Slew Rate Limited 15kV RS485 Transceivers

Summary of Features: LTC2856

- 20MBps or Low EMI 250kbps Maximum Data Rate
- No Damage or Latchup to ESD: $\pm 15\text{kV}$
- High Input Impedance Supports 256 Nodes
- Guaranteed Failsafe Receiver Operation Over the Entire Common Mode Range
- Current Limited Drivers and Thermal Shutdown
- Delayed Micropower Shutdown: 5 μA Max
- Compatible with TIA/EIA-485-A Specification
- Available in 8-Lead and 10-Lead 3mm x 3mm DFN and MSOP Packages

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, 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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