

LTC News for Immediate Release

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Rugged RS-232 Transceivers Operate Down to 1.8V & Up to 1Mbps

MILPITAS, CA – April 20, 2005 – Linear Technology Corporation introduces a family of single and dual RS-232 transceivers that operate over an input supply range from 1.8V to 5.5V. The low voltage accommodates systems powered from two alkaline, NiCd or NiMh cells, or systems that interface directly to a low voltage logic supply. This is beneficial for applications ranging from board-level diagnostics to portable instruments. Offering low 1uA shutdown current and a 15uA receiver-active current, the ICs are an attractive solution for any application that communicates through the RS-232 interface. The LTC2802 and LTC2804 support up to 1Mbps data rates for proprietary diagnostic links. The LTC2801 and LTC2803 are capable of rates as high as 250kbps.

The ICs integrate a boost converter for generating the required RS-232 output signal levels. Control pins invoke optional Shutdown, Receiver Active and Driver Disable features. The $\pm 10\text{kV}$ ESD protection on the RS-232 pins guards against electrostatic discharges that can be encountered during operation, while eliminating the need for external components.

The LTC2801 and LTC2802 are single transceivers, offered in a tiny 3mm x 4mm DFN package. The LTC2803 and LTC2804 are dual transceivers offered in 16-lead SSOP and 16-lead DFN packages. Specified over the commercial and industrial temperature ranges and available from stock, pricing begins at \$1.60 each in 1,000 piece quantities.

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Summary of Features: LTC2801, LTC2802, LTC2803 & LTC2804

- 1.8V to 5.5V Supply Voltage
- Single and Dual Transceivers
- High Speed Operation
 - 1Mbps for 250pF/3kOhm Load (LTC2802/LTC2804)
 - 250kbps for 1nF/3kOhm Load
 - 120kbps for 2.5nF/3kOhm TIA/EIA-232-F Load
- Low-power 1uA Shutdown and 15uA Receivers Active Modes
- No Damage or Latch- up to ± 10 kV ESD on RS-232 Interface
- True RS-232 Compliant Output Levels
- LTC2801/LTC2802 3mm x 4 mm DFN Package
- LTC2803/LTC2804 Narrow SSOP-16 and 3mm x 5mm DFN Packages

COMPANY BACKGROUND: Linear Technology Corporation was founded in 1981 as a manufacturer of high performance linear integrated circuits. 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.

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READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site: **<http://www.linear.com>**

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