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Dual SIM/Smart Card Power Supply IC Features Fast Channel Transition

MILPITAS, CA – February 13, 2007 – Linear Technology announces the LTC4558, a dual subscriber identity module (SIM) and Smart Card power supply IC with level translator that provides both 1.8V and 3V SIM power and digital signal level shifting in a tiny QFN package. The LTC4558 is ideal for GSM, TD-SCDMA and other 3G+ wireless applications that interface with either a 1.8V or 3V SIM or Smart Card. A channel select pin determines which channel is open for communication, while separate enable pins allow both cards to be powered at once and provide fast transition from one channel to the other. The LTC4558 can withstand >10kV ESD on all of the SIM contact pins and is designed to meet all ETSI, EMV and ISO7816 SIM/Smart card approval requirements. Its tiny 20-lead QFN package has only a 0.75mm profile, making it ideal for space-constrained applications.

The LTC4558 contains an LDO regulator to supply SIM power at either 1.8V or 3V from a 2.7V to 5.5V input. The SIM/Smart card voltages are selected via a single pin per channel, and up to 50mA of load current may be delivered. Patented dynamic pull-ups deliver fast rise times. Internal level translators accommodate a wide input range for controllers operating with supply voltages from 1.4V to 5.5V to interface with 1.8V or 3V SIM Cards. A very low operating current of 65uA (<1uA in shut down) ensures optimal battery run time. The combination of a very small solution footprint and low supply current make the LTC4558 ideal for battery-powered wireless applications.

LTC4558EUD is available from stock in a 20-lead 3mm x 3mm QFN package.

1,000-piece pricing starts at \$1.55 each.


Photo Caption: Fast Transition Dual SIM/Smart Card IC

Summary of Features: LTC4558

- Power Management & Signal Level Translators for Two SIM Cards or Smart Cards
- Independent 1.8V/3V V_{CC} Control for Each Card
- Supports Simultaneous Powering of Both Cards
- Fast Channel Switching
- Dynamic Pull-Ups Deliver Fast Signal Rise Times
- Automatic Level Translation
- Built-In Fault Protection Circuitry
- Automatic Activation/Deactivation Sequencing Circuitry
- Low Quiescent Current (65uA) and Shutdown Current (<1uA)
- Meets EMV Fault Tolerance Requirements
- >10kV ESD on SIM Card Pins
- Available in a Low-Profile 20-Lead (3mm x 3mm) QFN Package

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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