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## **Dual Output Boost Drives up to 6 White LEDs & an OLED Display from a 2mm x 3mm DFN Package**

MILPITAS, CA – June 13, 2007 – Linear Technology announces the LT3498, a dual output boost converter featuring a 2.3MHz PWM LED driver and a low noise OLED driver. The device includes an internal power switch and Schottky diode for each channel, all in 2mm x 3mm DFN package. The LT3498's wide 2.5V to 12V input voltage range enables it to operate from single cell Li-Ion batteries up to fixed 12V input rails, delivering outputs up to 32V. Each of the converters can be independently dimmed or shut down. From a single cell Li-Ion input, the LED driver channel can drive up to six series 20mA white LEDs while the OLED driver can deliver up to 24mA to a 16V output. This highly integrated power solution is ideal for dual display electronic devices.

The LT3498's LED driver uses a 2.3MHz PWM frequency, keeping switching noise out of critical wireless and audio bands. The device also uses a high side current sense topology, providing a one-wire current source for the LED Driver. Similarly, the OLED driver uses a unique control scheme that delivers both high efficiency and low output ripple over a wide load current range. This technique guarantees that the switching frequency stays above the audio band for the entire load range, making it ideal for noise-sensitive applications such as MP3 players and cellular phones. Additional features include open LED protection and OLED output disconnect.

The LT3498EDDB is available from stock in a 12-lead 2mm x 3mm DFN package. Pricing starts at \$1.95 each for 1,000-piece quantities.

**Photo Caption:** Dual Output Boost Drives up to 6 White LEDs & an OLED

### **Summary of Features: LT3498**

- Dual Output Boost for Dual Display Devices
- Drives Up to Six White LEDs & OLED/LCD Bias
- Internal Power Switches and Schottky Diodes
- Independent Dimming & Shutdown
- 200mV High Side Sense on LED Driver Allows “One-Wire Current Source”
- Wide Input Voltage Range: 2.5V to 12V
- Wide Output Voltage Range: Up to 32V
- 2.3MHz PWM Frequency for LED Driver
- PFM for OLED Driver is Non-Audible over Entire Load Range
- Open LED Protection
- OLED Output Disconnect
- Available in 12-Pin 2mm x 3mm DFN 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](http://www.linear.com)

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