



High Voltage Micropower Wake-Up Timer with Pushbutton Control Provides Configurable Wake Times for Power Conscious Applications

MILPITAS, CA – March 3, 2015 – Linear Technology Corporation introduces the [LTC2956](#), a wake-up timer with pushbutton control that manages 1.5V to 36V system power. Using microcontrollers or real-time clocks to track timing overcomplicates many designs. Electronic devices used to perform routine tasks, such as monitoring human body temperature, monitoring strain in a bridge, or capturing images, benefit from adjustable timing options without the need to program devices or upgrade firmware. The LTC2956 periodically “wakes up” and turns on a system to perform these tasks, then turns the system off to conserve power. While “sleeping” the LTC2956 sips only 800nA of quiescent current from a battery or rail. The wake-up period is resistor-adjustable from 250ms to 39 days, requires no code, and enables users to easily set device countdown timers via jumpers or switches.

The ease of use, wide operating range, and nanocurrent consumption of the LTC2956 are ideal for single-cell, multicell and high voltage devices, including intervalometers, which are used in time-lapse photography or military countermeasure applications, as well as “heartbeat” timers. A $\pm 25\text{kV}$ ESD protected pushbutton input starts the wake-up timer, allowing users to issue a short pushbutton press to override the timer for early wake-up or to issue a long pushbutton press to stop the timer completely and put the entire system to sleep with 300nA I_Q . The LTC2956 can also be configured to power up with the wake-up timer running automatically without the need of a pushbutton press. An adjustable watchdog timer allows users to limit the time a system is “awake” to prevent faulty microcontrollers or software from keeping a system on indefinitely until battery power is drained.

The LTC2956 is now available in both positive (LTC2956-1) and negative (LTC2956-2) enable polarities, and in 12-lead 3mm x 3mm DFN or 12-lead MSOP packages. Offered over the commercial and industrial temperature ranges, the LTC2956 is priced starting at \$1.98 each in 1000-piece quantities. For more information, visit www.linear.com/pushbutton

Photo Caption: Micropower Wake-up Timer with Pushbutton Control

Summary of Features: LTC2956

- Wide Input Supply Range: 1.5V to 36V
- Adjustable Wake-Up Period: 250ms to 39 Days
- 800nA Quiescent Current
- Low Leakage EN Output Allows DC/DC Converter Control (LTC2956-1)
- High Voltage EN Output Drives External P-Channel MOSFET (LTC2956-2)
- Debounced Pushbutton Status Output
- Pushbutton Interrupt
- Adjustable Power-Off Timer
- ± 25 kV ESD HBM on /PB Input
- 12-Lead 3mm x 3mm QFN & MSOP Packages

The USA list pricing shown is for budgetary use only. International prices may differ due to local duties, taxes, fees and exchange rates.

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

 , LT, LTC, LTM, Linear Technology, the Linear logo and μ Module are registered trademarks of Linear Technology Corp. All other trademarks are the property of their respective owners.

Press Contacts:

North America / Worldwide

John Hamburger, Director Marketing
Communications
jhamburger@linear.com
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
Tel: 408-432-1900 ext 2233

UK & Nordic

Alan Timmins
alan@ezwire.com
Tel: +44-1-252-629937