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60V/4A & 36V/8A Buck-Boost μ Module Regulators In 15mm x 15mm BGA Package

MILPITAS, CA – March 24, 2015 – Linear Technology Corporation introduces a new family of buck-boost μ Module[®] (micromodule) regulators. The [LTM8055](#) and [LTM8056](#) seamlessly regulate an output voltage equal to, greater or less than the input voltage. Housed in 15mm x 15mm x 4.92mm BGA package, these devices include the inductor, DC/DC regulator, MOSFETs and the supporting components. The LTM8055 operates from input voltages ranging from 5V to 36V, delivering a load current up to 8A. The LTM8056 has a higher input voltage, up to 60V with 4A load current capability. The compact solution provided by these devices free PCB board space in systems such as battery operated devices, industrial control, avionics and solar-powered equipment.

For battery charging or precision load current adjustment, both devices enable input and output average current limit setting. Moreover, input and output current can be monitored by measuring voltage on a signal pin. Switching frequency is adjustable from 100kHz to 800kHz, while each device can be synchronized to an external clock frequency from 200kHz to 700kHz. With one resistor, the output voltage can be adjusted from 1.2V to 36V (LTM8055) and 1.2V to 48V (LTM8056).

The LTM8055 and LTM8056 are operational for -40°C to 125°C and -55°C to 125°C . 1000-piece pricing starts at \$22.00 each for both products. For more information, visit www.linear.com/product/LTM8055

Photo Caption: 36V/60V Buck-Boost μ Module[®] Regulator


Summary of Features: LTM8055 & LTM8056

- Complete Buck-Boost μ Module Regulators
- LTM8055: 5V to 36V Input, 1.2V to 36V Output, 8A
- LTM8056: 5V to 60V Input, 1.2V to 60V Output, 4A
- 15mm x 15mm x 4.92 BGA Package
- Input & Output Current Limit Set & Monitor

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

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