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36V_{IN} µModule Regulator with Configurable Array of Five Low Noise 1A Linear Regulators for Multirail Logic Devices

MILPITAS, CA – March 12, 2013 – Linear Technology Corporation introduces the [LTM8001](#), a step-down µModule[®] (micromodule) regulator consisting of an array of five low noise 1A linear regulators. The linear regulators are also configurable to deliver 2A, 3A, 4A or 5A, depending on the number and combination of current shared outputs. Housed in a 15mm x 15mm x 3.42mm ball grid array (BGA) package, the LTM8001 provides high efficiency conversion from an input source, ranging from 6V to 36V, by powering the five low noise linear regulators from an onboard synchronous step-down converter. Each output voltage is adjustable from 0V to 24V. The LTM8001 is designed to supply multirail systems based on FPGAs, DSPs, ASICs and microprocessors.

Each of the LTM8001's five linear regulators has an adjustable output voltage ranging from 0V to 24V with $\pm 2\%$ accuracy over temperature. Output noise is just $90\mu\text{V}_{\text{RMS}}$ over the 10Hz to 1MHz frequency range. The step-down regulator features a user-adjustable current limit accurate within $\pm 10\%$.

The LTM8001 is available with guaranteed operation over the -40°C to $+125^{\circ}\text{C}$ and -55°C to $+125^{\circ}\text{C}$ internal temperature range. Pricing starts at \$17.40 each for 1,000 piece quantities. The LTM8001 is available for immediate delivery from stock. For more information, visit www.linear.com/product/LTM8001.


Photo Caption: The LTM8001 μ Module[®] Regulator's Array of Five 90 μ V_{RMS} LDOs Supports Multiple Output Configurations

Summary of Features: LTM8001

- Step-Down Power Supply
 - Adjustable 10% Accurate Output Current Limit
 - Wide Input Voltage Range: 6V to 36V
 - 0V to 24V Output Voltage
- Configurable Output LDO Array
 - Five 1.1A Parallelable Outputs
 - Outputs Adjustable from 0V to 24V with $\pm 2.0\%$ Accurate V_{REF}
 - Low Output Noise: 90 μ V_{RMS} (10Hz to 1MHz)
- -40°C to +125°C & -55°C to +125°C Internal Operating Temperature Range Options
- 15mm \times 15mm \times 3.42mm Surface Mount BGA Package

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 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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