



Ultrathin 1.8mm, 3A μ Module Regulator in 6.25mm x 6.25mm LGA Package for PCIe, ATCA, microTCA Cards & Backside PCB Assembly

MILPITAS, CA – December 1, 2014 – Linear Technology Corporation introduces the [LTM4623](#) 3A μ Module (micromodule) step-down regulator in an ultrathin 1.8mm profile LGA package with only a 6.25mm x 6.25mm footprint. With solder paste, the package height is less than 2mm, meeting the height restrictions of many PCIe (Peripheral Component Interconnect Express), Advanced Mezzanine Cards (AMC) for AdvancedTCA carrier cards in embedded computing systems. The small size and low height allow the LTM4623 to be mounted on the backside of the PCB, freeing space on the topside for components such as memory and FPGAs. The LTM4623 operates from 4V to 20V input supplies and precisely regulates an output voltage from 0.6V to 5.5V with 1.5% maximum total DC output voltage error. Application examples include ultra-dense data storage, gateway controllers and 40Gbps to 100Gbps network equipment.

The LTM4623 solution fits in a 0.5cm² dual-sided PCB or <1cm² on a single-sided PCB. The circuit only requires one input capacitor and one output capacitor, a resistor to set V_{OUT} , and a small capacitor for V_{OUT} tracking and soft-start. With an auxiliary 5V bias, the LTM4623 operates from input supplies as low as 2.375V. The operating efficiency for converting 12V_{IN} to 1.5V_{OUT} and 3.3V_{OUT} at 3A is 80% and 88%, respectively. Power loss for 12V_{IN} to 1.5V_{OUT} is 1.1W, resulting in only a 24°C rise in junction temperature. The LTM4623 is rated for operation from –40°C to 125°C. 1,000-piece pricing starts at \$6.05 each. For more information, visit www.linear.com/product/LTM4623

Photo Caption: Ultrathin 3A μ Module Regulator


Summary of Features: LTM4623

- Ultrathin 1.8mm x 6.25mm x 6.25mm LGA 3A μ Module[®] Regulator
- <0.5cm² Total Solution, Dual-Sided PCB
- Wide Input Voltage Range = 4V to 20V
- Output Voltage Adjustable with Resistor from 0.6V to 5.5V
- Overvoltage, Overcurrent & Overtemperature Protection.

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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