



Ultrathin μ Module Regulator Gets Closer to FPGAs, GPUs, ASICs or Processors under a Common Heat Sink

MILPITAS, CA – August 15, 2016 – Linear Technology Corporation introduces the [LTM4631](#), a dual 10A or single 20A μ Module[®] (power module) step-down regulator in an ultrathin 1.91mm LGA package with a 16mm x 16mm footprint. The LTM4631 can be placed on a PC board very close to its load such as an FPGA, while sharing one heat sink covering both of their low profile packages. The small, thin package permits the LTM4631 to be mounted on the backside of circuit boards, freeing space on the topside for components such as DDR-QDR memory and transceiver ICs. Examples of applications include plug-in and mezzanine cards in embedded systems, data storage systems, gateway controllers and 40Gbps to 100Gbps networks.

The LTM4631 operates from 4.5V to 15V input supplies and regulates an output voltage from 0.6V to 1.8V with $\pm 1.5\%$ maximum total DC output voltage error from -40°C to 125°C . Its two outputs operate 180° out-of-phase, each capable of delivering 10A or 20A when the outputs current share. Two devices can current share, delivering up to 40A while minimizing input and output ripple current. The device features output overcurrent foldback and overvoltage protection. The LTM4631 is rated for operation from -40°C to 125°C . 1,000-piece pricing starts at \$24.88 each. For more information, visit www.linear.com/product/LTM4631.

Photo Caption: Ultrathin μ Module Regulator

Summary of Features: LTM4631

- 1.91mm Ultrathin 16mm x 16mm LGA Dual 10A or Single 20A μ Module[®] Regulator
- Wide Input Voltage Range: 4.5V to 15V
- Output Voltage Adjustable with Resistor from 0.6V to 1.8V
- Overvoltage & Overcurrent Protection

Pricing shown is for budgetary use only and 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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