



Precision Set & Readback PMBus-Compatible, Dual 9A or Single 18A μ Module Regulator

MILPITAS, CA – June 10, 2015 – Linear Technology Corporation announces the [LTM4675](#), dual 9A or single 18A, μ Module[®] (micromodule) step-down DC/DC regulator with PMBus serial digital interface in a small 11.9mm x 16mm x 3.51mm BGA package. The I²C-based interface enables system designers and remote operators to command and supervise a system's power condition and consumption. Calibrated and guaranteed from –40°C to 125°C, output DC voltage accuracy is $\pm 0.5\%$ over line and load regulation, and load current readback accuracy is $\pm 2.5\%$ maximum.

The LTM4675 includes EEPROM, power MOSFETs, inductors and supporting components. It has fast, dual analog control loops and precision mixed-signal circuitry. The LTM4675 is drop-in pin-compatible with the larger package (16mm x 16mm BGA) higher power dual 13A LTM4676A, eliminating layout changes so that system designers can easily switch between the devices during the prototype phase. This eliminates redesign of power circuits if power requirements change during board prototyping. The LTM4675 has applications in optical transport systems, datacom and telecom switches and routers, industrial test equipment, robotics, RAID and enterprise systems where energy costs, cooling and maintenance are critical and must be continuously and precisely measured.

The LTM4675 operates from a 4.5V to 17V input supply and steps down V_{IN} to two outputs ranging from 0.5V up to 5.5V. Two channels can current share to provide up to 18A (i.e., 9A+9A as one output). Power-up turn-on time is 70ms. To evaluate the performance of the LTM4675, the free LTpowerPlay[™] GUI-based development system is available for download, and a USB-to-PMBus converter and demo kit are available. With $\pm 0.5\%$ maximum DC output error over temperature, $\pm 2.5\%$ current readback accuracy, integrated 16-bit delta-sigma ADC and EEPROM, the LTM4675 combines best-in-class analog switching regulator performance with precision mixed-signal data acquisition. At start-up, output voltages, switching frequency and channel phase angle assignments can be set by pin-strapping resistors.

The LTM4675 internal operating temperature range is from -40°C to 125°C . 1,000-piece price is \$24.00 each. For more information, visit www.linear.com/product/LTM4675

Photo Caption: Dual 9A or Single 18A μ Module Regulator with Digital Interface


Summary of Features: LTM4675

- Dual 9A or Single 18A μ Module with Power System Management
- Regulator with Fast Analog Control Loops & PMBus Interface
- $\pm 2.5\%$ Current Readback Accuracy, $\pm 0.5\%$ Maximum DC Output Voltage Error over Temperature
- 70ms Power-Up & 8ms ADC-Telemetry Update Rate
- 11.9 x 16 x 3.51mm BGA Package, Includes Inductors, Power MOSFETs, DC/DC Converter, Data Acquisition System & EEPROM

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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