



36A Single or 18A Dual μ Module Regulator with PMBus Digital Interface Can Current Share Up to 144A

MILPITAS, CA – December 3, 2015 – Linear Technology Corporation announces the [LTM4677](#), a dual 18A or single 36A μ Module[®] (power module) step-down DC/DC regulator with PMBus serial digital interface for autonomous digital power system management. The digital interface enables system designers and remote operators to control and supervise a system's power condition and consumption via an I²C bus with READ and WRITE commands.

The LTM4677 has applications in optical data transport systems, datacom and telecom switches and routers, industrial test equipment, robotics, RAID and enterprise systems where the cost of electricity, cooling and maintenance are critical and must be continuously and precisely measured.

The LTM4677 is comprised of EEPROM, I²C interface, dual DC/DC controller, power MOSFETs, inductors and supporting components. Its two 18A outputs can current share to provide up to 36A single output. As many as four LTM4677 devices can be multi-phased to share current up to 144A output. Another advantage of the LTM4677 is its ability to current share with non-PMBus interfaced μ Module regulators such as the 26A LTM4620 and 36A LTM4630.

Lower power versions of the LTM4677, the LTM4675 (9A, 9A) and the LTM4676A (13A, 13A), are pin compatible with the LTM4677 and are 100% functional alternatives during system prototyping, eliminating the need to change circuit board layout.

The LTM4677 has fast, dual analog control loops, precision mixed-signal circuitry and is housed in a 16mm x 16mm x 5.01mm BGA (ball grid array) package. The LTM4677 internal operating temperature range is from –40°C to 125°C. 1,000-piece price is \$39.60 each. For more information, visit: www.linear.com/product/LTM4677.

Photo Caption: μ Module Regulator with PMBus Digital Interface


Summary of Features: LTM4677

- Dual 18A or Single 36A μ Module; Parallel for Up to 144A
- Regulator with Fast Analog Control Loops & Digital PMBus Interface for Remote Power System Management
- $\pm 2.5\%$ Current Read Back Accuracy, $\pm 0.5\%$ Maximum DC Output Voltage Error Over Temperature
- Input voltage: 4.5V to 16V; Output Voltages: 0.5V to 1.8V
- 16 x 16 x 5.01mm 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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