

58V_{IN}, 24W, Inverting μ Module Regulator Is EN55022 Class B Compliant

MILPITAS, CA & NORWOOD, MA – September 6, 2017 – Analog Devices, Inc., which recently acquired Linear Technology Corporation, announces the [LTM4651](#), a nonisolated inverting output μ Module[®] regulator that can generate $-26.5V$ to $-0.5V$ output from a positive input supply voltage. The LTM4651 operates over a 3.6V to 58V input voltage range and is housed in a 15mm x 9mm x 5.01mm BGA package, a compact solution, providing $-5V_{OUT}$, $-12V_{OUT}$, $-15V_{OUT}$ and $-24V_{OUT}$ from industrial standard 5V_{IN}, 12V_{IN} or 24V_{IN} supplies. The LTM4651 is designed to meet the EN55022 Class B EMC standard for Information Technology Equipment. The combination of a wide voltage range and low EMI operation makes it suitable for applications in harsh environments such as test and measurement, industrial, factory automation, process control, medical devices, imaging and communications.

The LTM4651 includes a DC/DC inverting regulator, inductor, MOSFETs and compensation circuitry. The LTM4651 is designed as a standalone inverting regulator solution without need of any external circuitry. This contrasts with alternative solutions, which require added level-shift circuitry.

The LTM4651's output current capability is up to 4A or 24W of output power. For higher output power, multiple LTM4651 devices can be operated in parallel. The supported switching frequency range is 250kHz to 3MHz, set by a single resistor. The LTM4651 features overcurrent and overtemperature protection.

The LTM4651 operating temperature range is $-40^{\circ}C$ to $125^{\circ}C$. 1,000-piece pricing starts at \$14.75 each. For more information, visit www.linear.com/product/LTM4651.

Photo Caption: Inverting μ Module Regulator from Wide 3.6V to 58V Input Voltage Range

Summary of Features: LTM4651


- Wide Input Voltage Range: 3.6V to 58V
- Up to 4A Output Current
 - 24W Output from 12V_{IN} to -24V_{OUT}, P_{LOSS} = 5W, T_A = 60°C, t_{RISE} = 60°C, 200LFM
- Output Voltage Range: -26.5V \leq V_{OUT} \leq -0.5V
 - Safe Operating Area: V_{IN} + |V_{OUT}| \leq 58V
- \pm 1.67% Total DC Output Voltage Error Over Line, Load & Temperature (-40°C to 125°C)
- Parallel & Current Share with Multiple LTM4651s
- EN55022 Class B Compliant
- 15mm \times 9mm \times 5.01mm BGA Package

Pricing shown is for budgetary use only and may differ due to local duties, taxes, fees and exchange rates.

Analog Devices just got more Powerful. On March 10, Analog Devices acquired Linear Technology, creating the premier high-performance analog company. More info at <http://lt.linear.com/07c>

About Analog Devices

Analog Devices (NASDAQ: ADI) is the leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>

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Press Contacts:

North America / Worldwide

John Hamburger, Director Marketing
Communications
john.hamburger@analog.com
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
douglas.dickinson@analog.com
Tel: 408-432-1900 ext 2233

UK & Nordic

Alan Timmins
a.timmins@ntlworld.com
Tel: +44-1-252-629937