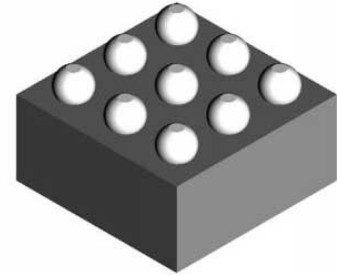


Ultrathin Quad μ Module Regulator with Configurable 3A Output Array

Manufacturers	Analog Devices, Inc
Package/Case	77-Lead BGA (15mm x 9mm x 2.42mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4643MPY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM4643 is a quad DC/DC step-down μ Module (power module) regulator with 3A per output. Outputs can be paralleled in an array for up to 12A capability. Included in the package are the switching controllers, power FETs, inductors and support components. Operating over an input voltage range of 4V to 20V or 2.375V to 20V with an external bias supply, the LTM4643 supports an output voltage range of 0.6V to 3.3V each set by a single external resistor. Its high efficiency design delivers 3A continuous output current per channel. Only bulk input and output capacitors are needed.

Fault protection features include overvoltage, overcurrent and overtemperature protection. The LTM4643 is offered in a 9mm \times 15mm \times 1.82mm LGA and 9mm \times 15mm \times 2.42mm BGA packages with SnPb (BGA) or RoHS compliant terminal finish.

Features

Quad Output Step-Down μ Module[®] Regulator with 3A per Output

Wide Input Voltage Range:

4V to 20V

2.375V to 20V with External Bias

0.6V to 3.3V Output Voltage

3A DC Output Current Each Channel

Current Mode Control, Fast Transient Response

Parallelable for Higher Output Current

Output Voltage Tracking

Internal Temperature Sensing Diode Output

External Frequency Synchronization

Overvoltage, Current and Temperature Protection

9mm \times 15mm \times 1.82mm LGA and 9mm \times 15mm \times 2.42mm BGA Packages

Application

FPGAs, GPUs and ASICs Applications

PCIe and Backside PCB Mounting

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN