

Quad DC/DC  $\mu$ Module (Power Module) Regulator with Configurable 4A Output Array

Manufacturers

[Analog Devices, Inc](#)

Package/Case

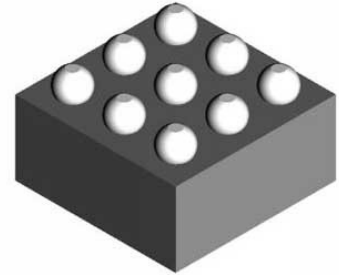
77-Lead BGA (15mm x 9mm x 5.01mm)

Product Type

Power Management ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for LTM4644IY-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM4644/LTM4644-1 is a quad DC/DC step-down  $\mu$ Module (micromodule) regulator with 4A per output. Outputs can be paralleled in an array for up to 16A capability. Included in the package are the switching controllers, power FETs, inductors and support components. Operating over an input voltage range of 4V to 14V or 2.375V to 14V with an external bias supply, the LTM4644/LTM4644-1 supports an output voltage range of 0.6V to 5.5V. Its high efficiency design delivers 4A continuous (5A peak) output current per channel. Only bulk input and output capacitors are needed.

## Features

Quad Output Step-Down  $\mu$ Module<sup>®</sup> Regulator with 4A per Output

Wide Input Voltage Range: 4V to 14V

2.375V to 14V with External Bias

0.6V to 5.5V Output Voltage

4A DC, 5A Peak Output Current Each Channel

Up to 5.5W Power Dissipation

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  $\times$  5.01mm BGA Package

## Application

Multirail Point of Load Regulation

FPGAs, DSPs and ASICs Applications

## 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