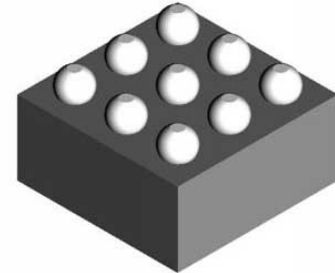


## 20A DC/DC $\mu$ Module (Power Module) Step-Down Regulator

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	133-Lead BGA (15mm x 15mm x 4.92mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4637EY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM4637 is a complete 20A output high efficiency switch mode step-down DC/DC  $\mu$ Module (power module) regulator. Included in the package are the switching controller, power FETs, inductor and compensation components. Operating over an input voltage range from 4.5V to 20V, the LTM4637 supports an output voltage range of 0.6V to 5.5V, set by a single external resistor. Only a few input and output capacitors are needed.

Current mode operation allows precision current sharing of up to four LTM4637 regulators to obtain up to 80A output. High switching frequency and a current mode architecture enable a very fast transient response to line and load changes without sacrificing stability. The device supports frequency synchronization, multiphase/current sharing, Burst Mode operation and output voltage tracking for supply rail sequencing. A diode-connected PNP transistor is available for use as an internal temperature monitor.

The LTM4637 is offered in 15mm  $\times$  15mm  $\times$  4.32mm LGA and 15mm  $\times$  15mm  $\times$  4.92mm packages. The LTM4637 is available with SnPb (BGA) or RoHS compliant terminal finish. The LTM4637 is pin compatible with the LTM4627, a 15A DC/DC  $\mu$ Module regulator.

## Features

Complete 20A Switch Mode Power Supply

4.5V to 20V Input Voltage Range

0.6V to 5.5V Output Voltage Range

Differential Remote Sense Amplifier for Precision Regulation for ( $V_{OUT} \leq 3.3V$ )

Current Mode Control/Fast Transient Response

Parallel Current Sharing (Up to 80A)

Frequency Synchronization

Selectable Pulse-Skipping or Burst Mode® Operation

Soft-Start/Voltage Tracking

Up to 88% Efficiency (12VIN, 1.8VOUT)

Overcurrent Foldback Protection

Output Overvoltage Protection

Internal Temperature Monitor

Overtemperature Protection

15mm × 15mm × 4.32mm LGA and 15mm × 15mm × 4.92mm BGA Packages

SnPb (BGA) or RoHS Compliant (LGA and BGA) Finish

## Application

Telecom Servers and Networking Equipment

Industrial Equipment

Medical Systems

High Ambient Temperature Systems

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN