

Dual 8A or Single 16A DC/DC  $\mu$ Module (Power Module) Regulator

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	144-Lead BGA (15mm x 15mm x 4.92mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4628IY or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com). We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM4628 is a complete dual 8A output switching mode DC/DC power supply and can be easily configured to provide a single 2-phase 16A output. Included in the package are the switching controller, power FETs, inductor, and all supporting components. Operating from an input voltage range of 4.5V to 26.5V, the LTM4628 supports two outputs each with an output voltage range of 0.6V to 5.5V, set by a single external resistor. Its high efficiency design delivers 8A continuous current for each output. Only a few input and output capacitors are needed.

The device supports frequency synchronization, multiphase operation, Burst Mode operation and output voltage tracking for supply rail sequencing. It has an on-board temperature diode for device temperature monitoring. High switching frequency and a current mode architecture enable a very fast transient response to line and load changes without sacrificing stability.

Fault protection features include overvoltage and overcurrent protection. The power module is offered in space saving and thermally enhanced 15mm x 15mm x 4.32mm LGA and 15mm x 15mm x 4.92mm BGA packages. The LTM4628 is available with SnPb (BGA) or RoHS compliant terminal finish.

Applications

## Features

Complete Standalone Dual Power Supply

Single 16A or Dual 8A Output

Wide Input Voltage Range: 4.5V to 26.5V

Output Voltage Range: 0.6V to 5.5V

Differential Remote Sense Amplifier

Current Mode Control/Fast Transient Response

Adjustable Switching Frequency

Overcurrent Foldback Protection

Multiphase Parallel Current Sharing with Multiple LTM4628s

Frequency Synchronization

Internal Temperature Sensing Diode Output

Selectable Burst Mode

Soft-Start/Voltage Tracking

Output Overvoltage Protection

Small Surface Mount Footprint, Low Profile 15mm × 15mm × 4.32mm LGA and 15mm × 15mm × 4.92mm BGA Packages

## Application

Telecom and Networking  
Equipment

Storage and ATCA Cards

Industrial Equipment

## 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

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