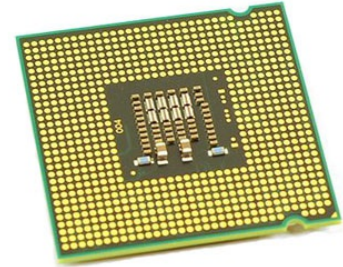


Low Voltage, 4A DC/DC  $\mu$ Module with Tracking; Package: LGA; No of Pins: 66;  
Temperature Range: -40°C to +125°C

|               |                                     |
|---------------|-------------------------------------|
| Manufacturers | <a href="#">Analog Devices, Inc</a> |
| Package/Case  | LGA-66                              |
| Product Type  | Power Management ICs                |
| RoHS          |                                     |
| Lifecycle     |                                     |



Images are for reference only

Please submit RFQ for LTM4604AEV#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM4604A is a complete 4A switch mode step-down  $\mu$ Module® (power module) regulator with  $\pm 1.75\%$  maximum total output voltage error. Included in the package are the switching controller, power FETs, inductor and all support components. Operating over an input voltage range of 2.375V to 5.5V, the LTM4604A supports an output voltage range of 0.8V to 5V, set by a single resistor. This high efficiency design delivers up to 4A continuous current (5A peak). Only input and output capacitors are needed to complete the design.

The 0.630mm LGA pads with 1.27mm pitch simplify PCB layout by providing standard trace routing and via placement. (The LTM4604A has smaller pads than the LTM4604). The low profile package enables utilization of unused space on the bottom of PC boards for high density point of load regulation. 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 foldback current protection, thermal shutdown and a programmable soft-start function. The LTM4604A is offered with SnPb (BGA) or RoHS-compliant terminal finish.

Notes LTM4604-LTM4604A Smaller pad sizes provide more distance between adjacent pads therefore there is less chance of solder paste or solder spreading outside the pad area

## Features

Complete Standalone Power Supply

Wide Input Voltage Range: 2.375V to 5.5V

4A DC, 5A Peak Output Current

0.8V to 5V Output

Output Voltage Tracking

UltraFast™ Transient Response

Power Good Indicator

Current Mode Control

Current Foldback Protection, Parallel/Current Sharing

Up to 95% Efficiency

Programmable Soft-Start

Micropower Shutdown:  $I_Q \leq 7\mu A$

Overtemperature Protection

9mm × 15mm × 2.32mm LGA and 9mm × 15mm × 3.42mm BGA Packages

## Application

Telecom and Networking Equipment

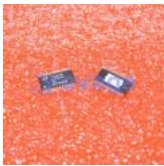
Servers

Storage Cards

ATCA Cards

Industrial Equipment

## 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