

DC/DC CONVERTER 0.6-5.5V 4A 22W

Manufacturers	<u>Analog Devices, Inc</u>
Package/Case	BGA-25
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4624IY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM4624 is a complete 4A step-down switching mode μ Module[®] (micromodule) regulator in a tiny 6.25mm \times 6.25mm \times 5.01mm BGA package. Included in the package are the switching controller, power FETs, inductor and support components. Operating over an input voltage range of 4V to 14V or 2.375V to 14V with an external bias supply, the LTM4624 supports an output voltage range of 0.6V to 5.5V, set by a single external resistor. Its high efficiency design delivers 4A continuous, 5A peak, output current. Only bulk input and output capacitors are needed.

The LTM4624 supports selectable discontinuous mode operation and output voltage tracking for supply rail sequencing. Its high switching frequency and current mode control enable a very fast transient response to line and load changes without sacrificing stability.

Fault protection features include overvoltage, overcurrent and overtemperature protection.

The LTM4624 is available with SnPb (BGA) or RoHS compliant terminal finish.

Features

Complete Solution in 1cm^2 (Single-Sided PCB) or $0.5\text{cm}^2</math> (Dual-Sided PCB)$

Wide Input Voltage Range: 4V to 14V

Input Voltage Down to 2.375V with External Bias

0.6V to 5.5V Output Voltage

4A DC, 5A Peak Output Current

Current Mode Control, Fast Transient Response

Output Voltage Tracking

Selectable Discontinuous Mode

Power Good Indicator

Overvoltage, Overcurrent and Overtemperature Protection

$6.25\text{mm} \times 6.25\text{mm} \times 5.01\text{mm}$ BGA Package

Application

Telecom, Datacom, Networking and Industrial Equipment

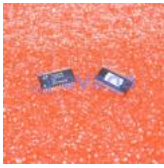
Medical Diagnostic Equipment

Data Storage Rack Units and Cards

Test and Debug Systems

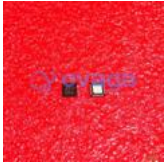


Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EX#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