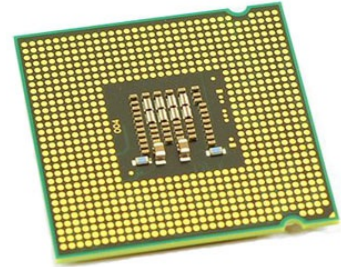


10A High Efficiency DC/DC  $\mu$ Module; Package: LGA; No of Pins: 104; Temperature Range: -40°C to +125°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LGA104
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4600HVEV#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM4600HV is a complete 10A, DC/DC step down power supply with up to 28V input operation. Included in the package are the switching controller, power FETs, inductor, and all support components. Operating over an input voltage range of 4.5V to 28V, the LTM4600HV supports an output voltage range of 0.6V to 5V, set by a single resistor. This high efficiency design delivers 10A continuous current (12A peak), needing no heat sinks or airflow to meet power specifications. Only bulk input and output capacitors are needed to finish the design.

The low profile package (2.82mm) enables utilization of unused space on the bottom of PC boards for high density point of load regulation. High switching frequency and an adaptive on-time current mode architecture enables a very fast transient response to line and load changes without sacrificing stability. Fault protection features include integrated overvoltage and short circuit protection with a defeatable shutdown timer. A built-in soft-start timer is adjustable with a small capacitor.

The LTM4600HV is packaged in a compact (15mm  $\times$  15mm) and low profile (2.82mm) over-molded Land Grid Array (LGA) package suitable for automated assembly by standard surface mount equipment. The LTM4600HV is RoHS compliant.

## Features

Complete Switch Mode Power Supply

Wide Input Voltage Range: 4.5V to 28V

10A DC, 12A Peak Output Current

Parallel Two  $\mu$ Module™ DC/DC Converters for 20A Output Current

0.6V to 5V Output Voltage

1.5% Output Voltage Regulation

Ultrafast Transient Response

Current Mode Control

RoHS Compliant Package with Gold Pad Finish (e4)

Up to 92% Efficiency

Programmable Soft-Start

Output Overvoltage Protection

Optional Short-Circuit Shutdown Timer

Small Footprint, Low Profile (15mm × 15mm × 2.82mm) LGA Package

## Application

Telecom and Networking Equipment

Military and Avionics Systems

Industrial Equipment

Point of Load Regulation

Servers

## 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



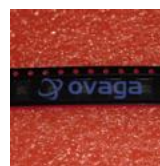
### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN