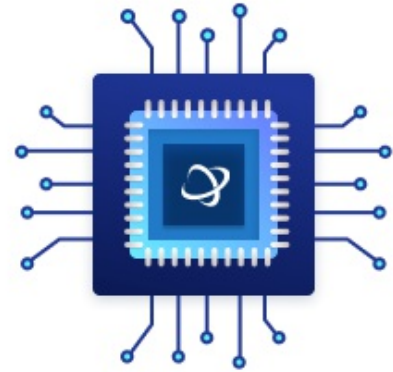


Switching Voltage Regulators Dual 10A or Single 20A DC/DC Module Regulator

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



Images are for reference only

Please submit RFQ for LTM4646IY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM4646 is a complete dual 10A output switching mode DC/DC power supply. Included in the package are the switching controller, power FETs, inductors, and all supporting components. Operating from an input voltage range of 4.5V to 20V, the LTM4646 supports two outputs each with an output voltage range of 0.6V to 5.5V, set by external resistors. Its high efficiency design delivers up to 10A continuous current for each output. Only a few input and output capacitors are needed.

The device supports frequency synchronization, multiphase operation, high efficiency light load operation and output voltage tracking for supply rail sequencing and has an on-board temperature diode per channel 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 a small footprint 11.25mm × 15mm × 5.01mm BGA package. The LTM4646 is available with SnPb or RoHS compliant terminal finish.

## Features

Dual 10A or Single 20A Output

Wide Input Voltage Range: 4.5V to 20V

2.375V<sub>MIN</sub> with CPWR Bias

Output Voltage Range: 0.6V to 5.5V

Multiphase Current Sharing

Differential Remote Sense Amplifier, Each Channel

Current Mode Control/Fast Transient Response

Up to 96% Efficiency

Adjustable Switching Frequency (250kHz to 1.3MHz)

Frequency Synchronization

Overcurrent Foldback Protection

Output Overvoltage Protection

Internal or External Compensation

Built-In Temperature Monitoring Diode

SnPb or RoHS Compliant Finish

11.25mm × 15mm × 5.01mm BGA Package

## Application

Point-of-Load Power Supplies

Telecom and Networking Equipment

Industrial Equipment

Medical Equipment

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN