



Data Sheet

Triple 10A Step-Down	DC/DC µModule (Power Module) Regulator	
Manufacturers	Analog Devices, Inc	
Package/Case	144-Lead BGA (15mm x 15mm x 5.01mm)	
Product Type	Power Management ICs	
RoHS		
Lifecycle		Images are for reference only

Please submit RFQ for LTM4633IY or Email to us; sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The LTM4633 μ Module® (power module) regulator combines three complete 10A switching mode DC/DC converters into one small package. Included in the package are the switching controllers, power FETs, inductors, and most support components. The LTM4633's three regulators operate from 4.7V to 16V input rail(s) or 2.375V to 16V with an external 5V bias. The VOUT1 and VOUT2 output range is 0.8V to 1.8V, while the VOUT3 output range is 0.8V to 5.5V. Each output is set by one external resistor.

High switching frequency and a current mode architecture enable a very fast transient response to line and load changes without sacrificing stability. The device supports frequency synchronization, multiphase parallel operation of VOUT1 and VOUT2, soft-start and output voltage tracking for supply rail sequencing.

Fault protection features include overvoltage protection, overcurrent protection and temperature monitoring. The power module is offered in a space saving, thermally enhanced $15\text{mm} \times 15\text{mm} \times 5.01\text{mm}$ BGA package. The LTM4633 is RoHS compliant with Pb-free finish.

Features

Three Independent 10A DC Output Current Regulator Channels

Input Voltage Range: 4.7V to 16V

2.375V to 16V with External 5V Bias

VOUT1,2 Voltage Range: 0.8V to 1.8V

VOUT3 Voltage Range: 0.8V to 5.5V

Current Mode Control/Fast Transient Response

Frequency Synchronization

Output Overvoltage and Overcurrent Protection

Multiphase Operation with Current Sharing on VOUT1 and VOUT2

General Purpose Temperature Monitors

Soft-Start/Voltage Tracking

Power Good Monitors

 $15\text{mm} \times 15\text{mm} \times 5.01\text{mm}$ BGA Package

Related Products

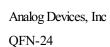


LT3763EFE
Analog Devices, Inc



LTC4417IUF

TSSOP28





LTC1966CMS8#PBF

Analog Devices, Inc MSOP-8P



LTM8045EY#PBF

Analog Devices, Inc BGA40



Telecom, Networking and Industrial Equipment

High Density Point of Load Regulation



LT1038CK

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LTC3440EMS

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LTC2990IMS#PBF

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