

Triple 10A Step-Down DC/DC μ Module (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](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

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 15mm \times 15mm \times 5.01mm 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

15mm × 15mm × 5.01mm BGA Package

Application

Telecom, Networking and Industrial Equipment

High Density Point of Load Regulation

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](#)

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10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
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