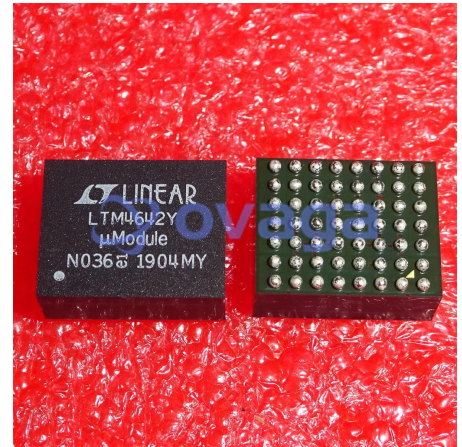


Conv DC-DC 2.375V to 20V Step Down Dual-Out 0.6V to 5.5V 4A/4A uModule 56Pin BGA Tray

Manufacturers	Analog Devices, Inc
Package/Case	BGA
Product Type	Power Management ICs
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4642EY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM4642 is a complete dual 4A or single 8A step-down DC/DC μ Module[®] (micromodule) regulator. Included in the package are the switching controller, power FETs, inductor, and all support components. Operating over input voltage ranges of 4.5V to 20V, (2.375V min with external CPWR bias), the LTM4642 supports two outputs with voltage ranges of 0.6V to 5.5V, set by a single external resistor. Its high efficiency design delivers 4A continuous current (5A peak) for each output.

High switching frequency and a valley current mode architecture enable a very fast transient response to line and load changes without sacrificing stability. The two outputs are interleaved with 180° phase to minimize the ripple noise and reduce the I/O capacitors.

The power module is offered in a 9mm × 11.25mm × 4.92mm BGA package. The LTM4642 is RoHS compliant with Pb-free finish.

Applications

Features

Small Form Factor Dual 4A Power Supply

Wide Input Voltage Range: 4.5V to 20V (2.375V Min with CPWR Bias)

Dual 180° Out-of-Phase Outputs with 4A DC

Dual Outputs with 0.6V to 5.5V Range

Output Voltage Tracking

Up to 95% Maximum Efficiency

Phase-Lockable Fixed Frequency 600kHz to 1.4MHz

Constant On-Time, Valley Current Mode Architecture

Selectable Burst Mode

Output Overvoltage and Overcurrent Protection

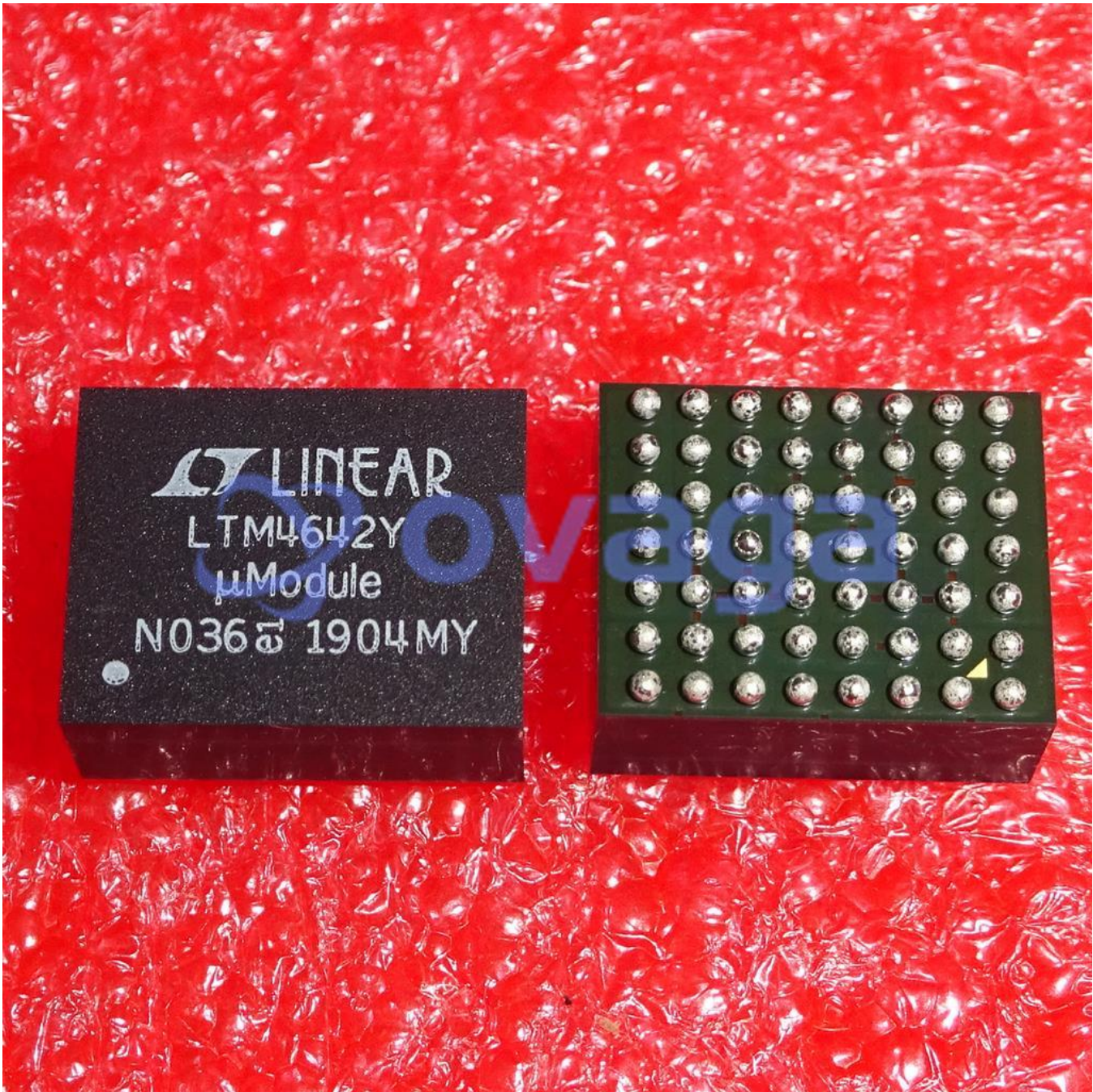
9mm × 11.25mm × 4.92mm BGA Package

Application

Telecom and Networking Equipment

Servers

FPGA Power



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