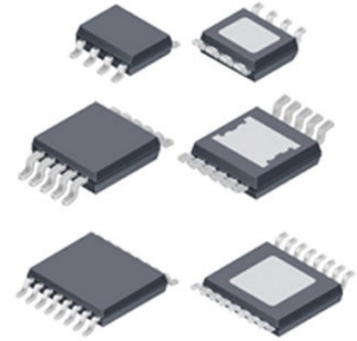


Switching Voltage Regulators 15V, 1.5A Sync Buck-Boost DC/DC Conv

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-16
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3111EMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3111 is a fixed frequency, synchronous buckboost DC/DC converter with an extended input and output range. The unique 4-switch, single inductor architecture provides low noise and seamless operation from input voltages above, below or equal to the output voltage.

With an input and output range of 2.5V to 15V, the LTC3111 is well suited for a wide variety of single or multiple-cell batteries, back-up capacitor or wall adapter source applications. Low RDS(ON) internal N-channel MOSFET switches and selectable PWM or Burst Mode operation produce high efficiency over a wide range of operating conditions. An accurate RUN pin allows the user to program the turn-on threshold voltage of the converter. Other features include: short-circuit protection, internal soft-start and thermal shutdown.

The LTC3111 is offered in both thermally enhanced 14-lead (3mm × 4mm × 0.75mm) DFN and 16-lead MSOP packages.

Features

Regulated Output with VIN Above, Below or Equal to VOUT

2.5V to 15V Input and Output Voltage Range

1.5A Continuous Output Current: VIN \geq 5V

Single Inductor

Accurate RUN Threshold

Up to 95% Efficiency

800kHz Switching Frequency, Synchronizable Between 600kHz and 1.5MHz

49 μ A No-Load Quiescent Current in Burst Mode[®] Operation

Output Disconnect in Shutdown

Shutdown Current < 1 μ A

Internal Soft-Start

Small, Thermally Enhanced 14-Lead (3mm \times 4mm \times 0.75mm) DFN and 16-Lead MSOP Packages

Application

3.3V or 5V from 1, 2 or 3 Li-Ion, Multiple-Cell Alkaline/NiMH Batteries

RF Transmitters

Military, Industrial Power Systems

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