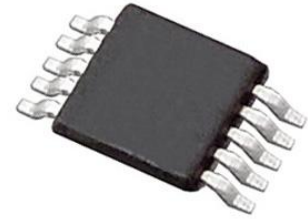


Conv DC-DC 2.5V to 5.5V Synchronous Non-Inverting/Inverting/Step Up/Step Down  
Single-Out 2.5V to 5.5V 0.6A Micropower 10-Pin MSOP Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-10
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3440EMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3440 is a high efficiency, fixed frequency, Buck-Boost DC/DC converter that operates from input voltages above, below or equal to the output voltage. The topology incorporated in the IC provides a continuous transfer function through all operating modes, making the product ideal for single lithium-ion, multicell alkaline or NiMH applications where the output voltage is within the battery voltage range.

The device includes two 0.19Ω N-channel MOSFET switches and two 0.22Ω P-channel switches. Switching frequencies up to 2MHz are programmed with an external resistor and the oscillator can be synchronized to an external clock. Quiescent current is only 25μA in Burst Mode operation, maximizing battery life in portable applications. Burst Mode operation is user controlled and can be enabled by driving the MODE/SYNC pin high. If the MODE/SYNC pin has either a clock or is driven low, then fixed frequency switching is enabled.

Other features include a 1μA shutdown, soft-start control, thermal shutdown and current limit. The LTC3440 is available in the 10-pin thermally enhanced MSOP package.

Protected by U.S. Patents including 6404251, 6166527.

## Features

Single Inductor

Fixed Frequency Operation with Battery Voltages

Above, Below or Equal to the Output

Synchronous Rectification: Up to 96% Efficiency

25µA Quiescent Current in Burst Mode® Operation

Up to 600mA Continuous Output Current

No Schottky Diodes Required ( $V_{OUT} < 4.3V$ )

VOUT Disconnected from VIN During Shutdown

2.5V to 5.5V Input and Output Range

Programmable Oscillator Frequency from 300kHz to 2MHz

Synchronizable Oscillator

Burst Mode Enable Control

Small Thermally Enhanced 10-Pin MSOP and (3mm × 3mm) DFN Packages

## Application

Palmtop Computers

Handheld Instruments

MP3 Players

Digital Cameras

## 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



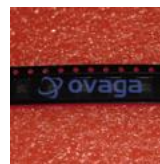
### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN