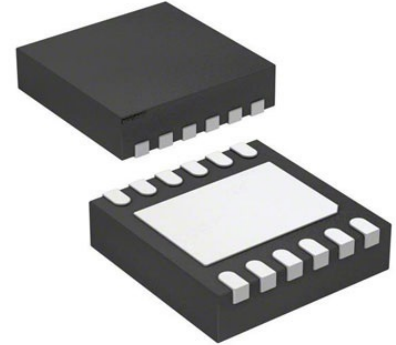


Conv DC-DC 1.8V to 5.5V Synchronous Step Down/Step Up Single-Out 1.8V to 5.5V 1A  
10-Pin DFN EP Tube



Images are for reference only

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

Please submit RFQ for LTC3536EDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3536 is an extended VIN range, fixed frequency, synchronous buck-boost DC/DC converter that operates from input voltages above, below or equal to the regulated output voltage. The topology incorporated in the LTC3536 provides low noise operation, making it ideal for RF and precision measurement applications.

The device can produce up to 1A of continuous output current, and it includes two N-channel and two P-channel MOSFET switches. Switching frequencies up to 2MHz can be programmed with an external resistor and the oscillator can be synchronized to an external clock. Quiescent current is only 32µA in Burst Mode operation, maximizing battery life in portable applications. Burst Mode operation is user controlled and improves efficiency at light loads.

Other features include a 1µA shutdown current, internal soft-start, overtemperature protection and current limit. The LTC3536 is available in 12-pin thermally enhanced MSOP and 10-pin (3mm × 3mm) DFN packages.

## Features

Regulated Output with Input Voltage Above, Below or Equal to the Output Voltage

1.8V to 5.5V Input and Output Voltage Range

1A Continuous Output Current for  $V_{IN} \geq 3V$ , >

Low Noise Buck-Boost Architecture

Up to 95% Efficiency

Programmable Frequency from 300kHz to 2MHz

Synchronizable Oscillator

Burst Mode® Operation: 32µA IQ

Internal 1ms Soft-Start

Output Disconnect in Shutdown

Shutdown Current: 1µA

Short-Circuit Protection

Small Thermally Enhanced 12-Pin MSOP and 10-Pin (3mm × 3mm) DFN Packages

## Application

Wireless Inventory Terminals

Handheld Medical Instruments

Wireless Locators, Microphones

Supercapacitor Backup Power Supply

## 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