

2A Wide Input Voltage Synchronous Buck-Boost DC/DC Converter; Package: DFN; No of Pins: 14; Temperature Range: -40°C to +125°C



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	DFN14
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LTC3533EDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3533 is a wide VIN range, highly efficient, 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 cell lithium-ion/polymer or multi-cell alkaline/NiMH applications where the output voltage is within the input voltage range.

The LTC3533 features programmable Burst Mode operation, extended VIN and VOUT ranges down to 1.8V, and increased output current. Switching frequencies up to 2MHz are programmed with an external resistor. The Burst Mode threshold is programmed with a single resistor from the BURST pin to GND.

Other features include 1µA shutdown current, short circuit protection, programmable soft-start, current limit and thermal shutdown. The LTC3533 is housed in the thermally enhanced 14-lead (3mm × 4mm × 0.75mm) DFN package.

Features

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

1.8V to 5.5V (Input) and 5.25V (Output) Voltage Range

0.8A Continuous Output Current: $V_{IN} > 1.8V$

2A Continuous Output Current: $V_{IN} > 3V$

Single Inductor

Synchronous Rectification: Up to 96% Efficiency

Programmable Burst Mode® Operation:>

Output Disconnect in Shutdown

Programmable Frequency from 300kHz to 2MHz

Small Thermally Enhanced 14-Lead (3mm × 4mm × 0.75mm) DFN package

Application

GSM Modems

Handheld Instruments

Digital Cameras

Smart Phones

Media Players

Miniature Hard Disk Drive Power

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