

Conv DC-DC 2.7V to 15V Synchronous Non-Inverting/Inverting/Step Up/Step Down  
Single-Out 2.5V to 14V 2.5A 20-Pin TSSOP EP Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	20-TSSOP (0.173, 4.40mm Width)
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3112IFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3112 is a fixed frequency synchronous buck-boost 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 range of 2.7V to 15V, the LTC3112 is well suited for a wide variety of single or multiple cell battery, backup capacitor or wall adapter source applications. Low RDS(ON) internal N-Channel MOSFET switches provide highly efficient operation in applications with higher load current requirements.

The LTC3112 features selectable PWM or Burst Mode operation, an easily synchronized oscillator and output disconnect in shutdown. An output current monitor circuit allows the load current to be controlled or measured. Other features include <math><1\mu\text{A}</math> shutdown current, short circuit protection, soft-start, current limit and thermal shutdown.

The LTC3112 is offered in both a 16-pin (4mm × 5mm × 0.75mm) DFN and 20-pin TSSOP packages.

## Features

Regulated Output with VIN Above, Below or Equal to VOUT

2.7V to 15V Input Voltage Range

2.5V to 14V Output Voltage Range

2.5A Continuous Output Current: VIN  $\geq$  VOUT

Output Current Monitor

Up to 95% Efficiency

750kHz Switching Frequency, Synchronizable Between 300kHz and 1.5MHz

Internal N-Channel MOSFETs

Selectable Burst Mode® Operation,>

Shutdown Current < 1 $\mu$ A

Overvoltage Protection

Output Disconnect in Shutdown

Internal Soft-Start

Small, Thermally Enhanced 16-Lead (4mm  $\times$  5mm  $\times$  0.75mm) DFN and 20-Lead TSSOP Package

## Application

3.3V or 5V from 1, 2 or 3 Li-Ion, Backup Capacitor Stack

Hand Held Inventory Terminals

RF Transmitters

12V Synchronous Boost Converter

Multiple Power Input Systems

LED Lighting with Current Regulation

12V Lead Acid Battery to 12V

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTM8045EX#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