

Charge Pump STPDN -2V to -18V 50mA Automotive 8-Pin SOIC N Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1144IS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC1144 is a monolithic CMOS switched-capacitor voltage converter. It performs supply voltage conversion from positive to negative from an input range of 2V to 18V, resulting in complementary output voltages of -2V to -18V. Only two noncritical external capacitors are needed for the charge pump and charge reservoir functions.

The converter has an internal oscillator that can be overdriven by an external clock or slowed down when connected to a capacitor. The oscillator runs at a 10kHz frequency when unloaded. A higher frequency outside the audio band can also be obtained if the Boost Pin is tied to V+. The SHDN pin reduces supply current to 8μA and can be used to save power when the converter is not in use.

The LTC1144 contains an internal oscillator, divide-by-two, voltage level shifter, and four power MOSFETs. A special logic circuit will prevent the power N-channel switch substrate from turning on.

## Features

Wide Operating Supply Voltage Range: 2V to 18V

Boost Pin (Pin 1) for Higher Switching Frequency

Simple Conversion of 15V to -15V Supply

Low Output Resistance: 120Ω Maximum

Power Shutdown to 8μA with SHDN Pin

Open Circuit Voltage Conversion Efficiency: 99.9% Typical

Power Conversion Efficiency: 93% Typical

Easy to Use

## Application

Conversion of 15V to ±15V Supplies

Inexpensive Negative Supplies

Data Acquisition Systems

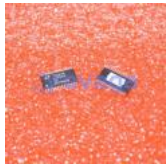
High Voltage Upgrade to LTC1044 or 7660

Voltage Division and Multiplications

Automotive Applications

Battery Systems with Wall Adapter/Charger

## 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



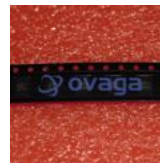
### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

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10MSOP



### [LT4295IUFD#PBF](#)

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