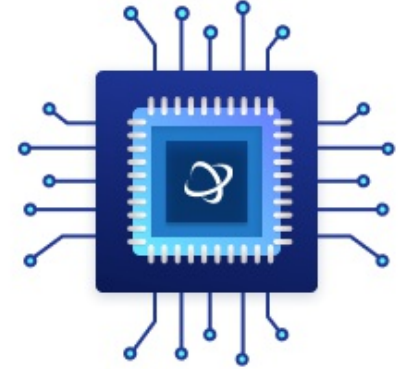


Conv DC-DC 0.225V to 5V Synchronous Step Up Single-Out 1.5V to 5.25V 0.4A 12-Pin MSOP Tube



Images are for reference only

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MS0P12
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LTC3105EMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours. [RFQ](#)

## General Description

The LTC3105 is a high efficiency step-up DC/DC converter that can operate from input voltages as low as 225mV. A 250mV start-up capability and integrated maximum power point controller (MPPC) enable operation directly from low voltage, high impedance alternative power sources such as photovoltaic cells, TEGs (thermoelectric generators) and fuel cells. A user programmable MPPC set point maximizes the energy that can be extracted from any power source. Burst Mode operation, with a proprietary self adjusting peak current, optimizes converter efficiency and output voltage ripple over all operating conditions.

The AUX powered 6mA LDO provides a regulated rail for external microcontrollers and sensors while the main output is charging. In shutdown, IQ is reduced to 10µA and integrated thermal shutdown offers protection from overtemperature faults. The LTC3105 is offered in 10-lead 3mm × 3mm × 0.75mm DFN and 12-lead MSOP packages.

## Features

Low Start-Up Voltage: 250mV

Maximum Power Point Control

Wide VIN Range: 225mV to 5V

Auxiliary 6mA LDO Regulator

Burst Mode® Operation>

Output Disconnect and Inrush Current Limiting

VIN > VOUT Operation

Antiringing Control

Soft Start

Automatic Power Adjust

Power Good Indicator

10-Lead 3mm × 3mm × 0.75mm DFN and 12-Lead MSOP Packages

## Application

Solar Powered Battery/Supercapacitor Chargers

Energy Harvesting

Remote Industrial Sensors

Low Power Wireless Transmitters

Cell Phone, MP3, PMP and GPS Accessory Chargers

## 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