

Conv DC-DC 1.92V to 15V Synchronous Step Down/Step Up Single-Out 1.4V to 15.75V
0.2A 16-Pin QFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	16-WFQFN
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3129EUD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3129 is a high efficiency, 200mA buck-boost DC/DC converter with a wide VIN and VOUT range. It includes an accurate RUN pin threshold to allow predictable regulator turn-on and a maximum power point control (MPPC) capability that ensures maximum power extraction from non-ideal power sources such as photovoltaic panels.

The LTC3129 employs an ultralow noise, 1.2MHz PWM switching architecture that minimizes solution footprint by allowing the use of tiny, low profile inductors and ceramic capacitors. Built-in loop compensation and soft-start simplify the design. For high efficiency operation at light loads, automatic Burst Mode operation can be selected, reducing the quiescent current to just 1.3µA.

Additional features include a power good output, less than 10nA of shutdown current and thermal shutdown.

The LTC3129 is available in thermally enhanced 3mm × 3mm QFN and 16-lead MSOP packages. For fixed output voltage options, see the functionally equivalent LTC3129-1, which eliminates the need for an external feedback divider.

Output VoltageLTC3129Adjustable 1.4V to 15.75V via resistor dividerLTC3129-18 pin programmable output voltages from 2.5V to 15V

Features

Regulates VOUT Above, Below or Equal to VIN

Wide VIN Range: 2.42V to 15V, 1.92V to 15V After Start-Up (Bootstrapped)

Wide VOUT Range: 1.4V to 15.75V

200mA Output Current in Buck Mode

Single Inductor

1.3 μ A Quiescent Current

Programmable Maximum Power Point Control

1.2MHz Ultralow Noise PWM

Current Mode Control

Pin Selectable Burst Mode® Operation

Up to 95% Efficiency

Accurate RUN Pin Threshold

Power Good Indicator

10nA Shutdown Current

Thermally Enhanced 3mm \times 3mm QFN and 16-Lead MSOP Packages

Application

Industrial Wireless Sensor Nodes

Post-Regulator for Harvested Energy

Solar Panel Post-Regulator/Charger

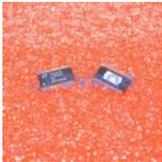
Intrinsically Safe Power Supplies

Wireless Microphones

Avionics-Grade Wireless Headsets



Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP10



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MSOP-8P



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