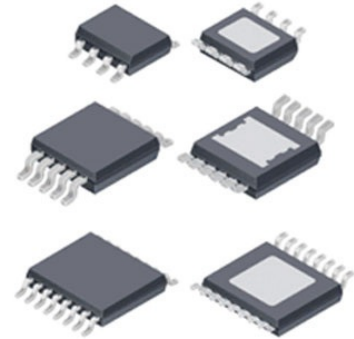


25V, 600mA Buck-Boost DC/DC Converter with 1.6 μ A Quiescent Current

Manufacturers	Analog Devices, Inc
Package/Case	16-Lead MSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3130EMSE-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3130/LTC3130-1 are high efficiency, low noise, 600mA buck-boost converters with wide VIN and VOUT ranges. For high efficiency operation at light loads, BurstMode operation can be selected, reducing the quiescent current to just 1.6 μ A. Converter start-up is achieved from sources as low as 7.5 μ W.

The LTC3130/LTC3130-1 employ an ultralow noise, 1.2MHz PWM architecture that minimizes solution footprint by allowing the use of tiny, low profile inductors and ceramic capacitors. Built-in loop compensation and soft-start reduces external parts count and simplifies the design. Features include an accurate RUN comparator threshold to allow predictable regulator turn-on and a maximum power point control (MPPC) capability that ensures maximum power extraction from non-ideal sources such as photovoltaic panels. The LTC3130-1 includes an internal voltage divider to provide four selectable fixed output voltages.

Additional features include a power good output, an external VCC input and thermal shutdown.

The LTC3130 and LTC3130-1 are available in thermally-enhanced 20-lead 3mm \times 4mm QFN and 16-lead MSOP packages.

Features

Regulates VOUT Above, Below or Equal to VIN

Wide VIN Range: 2.4V to 25V, <1V to 25V (Using EXTVCC Input)

VOUT Range: 1V to 25V

Adjustable Output Voltage (LTC3130)

Four Selectable Fixed Output Voltages (LTC3130-1)

1.2µA No-Load Input Current in Burst Mode® Operation = 5V)

600mA Output Current in Buck Mode

Pin-Selectable 850mA/450mA Current Limit (LTC3130)

Up to 95% Efficiency

Pin-Selectable Burst Mode Operation

1.2MHz Ultralow Noise PWM Frequency

Accurate RUN Pin Threshold n Power Good Indicator

Programmable Maximum Power Point>

Thermally-Enhanced 20-Lead 3mm × 4mm QFN and 16-Lead MSOP Packages

Application

Long-Life, Battery-Operated Instruments

Portable Military Radios

Low Power Sensors

Solar Panel Post-Regulator/Charger

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN