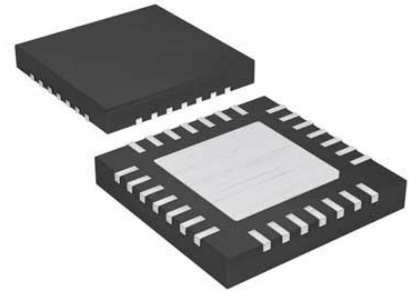


18V, 5A Synchronous Buck-Boost DC/DC Converter

Manufacturers	Analog Devices, Inc
Package/Case	28-Lead QFN (4mm x 5mm x 0.75mm w/ EP)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3119IUFD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3119 is a high efficiency 18V monolithic buck-boost converter that can deliver up to 5A of continuous output current. Extensive feature integration and very low resistance internal power switches minimize the total solution footprint for even the most demanding applications. A proprietary 4-switch PWM architecture provides seamless low noise operation from input voltages above, equal to, or below the output voltage.

External frequency programming as well as synchronization using an internal PLL enable operation over a wide switching frequency range of 400kHz to 2MHz. The wide 2.5V to 18V input range is well suited for operation from unregulated power sources including battery stacks and backup capacitors. After start-up, operation is possible with input voltages as low as 250mV.

Other features include: output short-circuit protection, thermal overload protection, less than 3 μ A shutdown current, power good indicator, Burst Mode operation, and maximum power point control.

The LTC3119 is offered in thermally enhanced 28-lead 4mm \times 5mm QFN and TSSOP packages.

Features

Input Voltage Range: 2.5V to 18V

Runs Down to >

Output Voltage Range: 0.8V to 18V

5A Output Current in Buck Mode, $V_{IN} > 6V$

3A Output Current for = 5V

Programmable Switching Frequency: 400kHz to 2MHz

Synchronizable with an External Clock Up to 2MHz

Accurate Run Comparator Threshold

Burst Mode® Operation, No-Load >

Ultralow Noise Buck-Boost PWM

Current Mode Control

Maximum Power Point Control

Power Good Indicator

Internal Soft-Start

28-Lead 4mm × 5mm QFN and TSSOP Packages

Application

Wide Input Range Power Supplies

1- to 4-Cell Lithium Battery Powered Products

RF Power Supplies

Solar Battery Chargers

System Backup Power Supplies

Lead Acid to 12V Regulator

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