

10A, 32V Monolithic Synchronous Step-Down DC/DC Converter; Package: QFN; No of Pins: 64; Temperature Range: -40°C to +125°C

Manufacturers	Analog Devices, Inc
Package/Case	QFN64
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3611EWP#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3611 is a high efficiency, monolithic synchronous step-down DC/DC converter that can deliver up to 10A output current from a 4.5V to 32V (36V maximum) input supply. It uses a constant on-time valley current mode control architecture to deliver very low duty cycle operation at high frequency with excellent transient response. The operating frequency is selected by an external resistor and is compensated for variations in VIN and VOUT.

The LTC3611 can be configured for discontinuous or forced continuous operation at light load. Forced continuous operation reduces noise and RF interference while discontinuous mode provides high efficiency by reducing switching losses at light loads.

Fault protection is provided by internal foldback current limiting, an output overvoltage comparator and an optional short-circuit shutdown timer. Soft-start capability for supply sequencing is accomplished using an external timing capacitor. The regulator current limit is user programmable. A power good output voltage monitor indicates when the output is in regulation. The LTC3611 is available in a compact 9mm × 9mm QFN package.

Features

10A Output Current

Wide VIN>

Internal N-Channel MOSFETs

True Current Mode Control

Optimized for High Step-Down Ratios

$t_{ON(MIN)} \leq 100ns$

Extremely Fast Transient Response

Stable with Ceramic COUT

Power Good Output Voltage Monitor

Adjustable On-Time/Switching Frequency (>1MHz)

Adjustable Current Limit

Programmable Soft-Start

Output Overvoltage Protection

Optional Short-Circuit Shutdown Timer

Low Shutdown IQ: 15 μ A

Available in a 9mm \times 9mm 64-Pin QFN Package

Application

Point of Load Regulation

Distributed Power Systems

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

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BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN