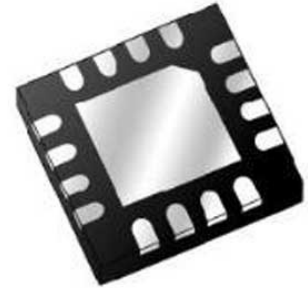


1.5A, 15V Monolithic Synchronous Step-Down Regulator; Package: 16-QFN; Temperature Range: -40°C to 125°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QFN-16
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3601EUD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3601 is a high efficiency, monolithic synchronous buck regulator using a phase-lockable controlled on-time, current mode architecture capable of supplying up to 1.5A of output current. The operating supply voltage range is from 4V to 15V, making it suitable for a wide range of power supply applications.

The operating frequency is programmable from 800kHz to 4MHz with an external resistor enabling the use of small surface mount inductors. For switching noise sensitive applications, the LTC3601 can be externally synchronized over the same frequency range. An internal phase-locked loop aligns the on-time of the top power MOSFET to the internal or external clock. This unique constant frequency/ controlled on-time architecture is ideal for high step-down ratio applications that demand high switching frequencies and fast transient response.

The LTC3601 offers two operational modes: Burst Mode operation and forced continuous mode to allow the user to optimize output voltage ripple, noise, and light load efficiency for a given application. Maximum light load efficiency is achieved with the selection of Burst Mode operation while forced continuous mode provides minimum output ripple and constant frequency operation.

## Features

4V to 15V Operating Input Voltage Range

1.5A Output Current

Up to 96% Efficiency

Very Low Duty Cycle Operation: 5% at 2.25MHz

Adjustable Switching Frequency: 800kHz to 4MHz

External Frequency Synchronization

Current Mode Operation for Excellent Line and Load Transient Response

User Selectable Burst Mode® (No Load)

0.6V Reference Allows Low Output Voltages

Short-Circuit Protected

Output Voltage Tracking Capability

Programmable Soft-Start

Power Good Status Output

Available in Small, Thermally Enhanced, 16-Pin QFN (3mm × 3mm) and MSOP Packages

## Application

Distributed Power Systems

Lithium-Ion Battery-Powered Instruments

Point-of-Load Power Supply

## 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