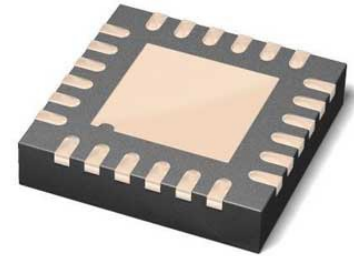


Conv DC-DC 2.25V to 5.5V Synchronous Step Down Dual-Out 0.6V to 5.5V 3A/3A
Automotive 24-Pin QFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	QFN-24
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3615EUF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3615/LTC3615-1 are dual 3A synchronous stepdown regulators using a current mode, constant-frequency architecture. The DC supply current is only 130 μ A (Burst Mode operation at no-load) while maintaining the output voltages, dropping to zero current in shutdown. The 2.25V to 5.5V input supply range makes the parts ideally suited for single Li-Ion applications. 100% duty cycle capability provides low dropout operation, which extends operating time in battery-operated systems.

The operating frequency is externally programmable up to 4MHz, allowing the use of small surface mount inductors. 0°, 90°, or 180° (LTC3615) or 140°/180° (LTC3615-1) of phase shift between the two channels can be selected to minimize input current ripple and output voltage ripple in a dual 3A or single 6A output configuration. Programmable slew rate limiting reduces EMI, and external synchronization can be applied up to 4MHz.

The internal synchronous switches increase efficiency and eliminate the need for external catch diodes, saving external components and board space.

The LTC3615/LTC3615-1 are offered in leadless 24-pin 4mm \times 4mm QFN and thermally enhanced 24-pin eTSSOP packages.

Features

High Efficiency: Up to 94%

Dual Outputs with $2 \times 3A$ Output Current Capability

Low Output Ripple Burst Mode® Operation>

2.25V to 5.5V Input Voltage Range

Output Voltages Down to 0.6V

Programmable Slew Rate at Switch Pins

Low Dropout Operation: 100% Duty Cycle

Shutdown Current $\leq 1\mu A$

Adjustable Switching Frequency Up to 4MHz

Internal or External Compensation

Selectable Pulse-Skipping/Forced Continuous/ Burst Mode Operation with Adjustable Burst Clamp

Optional Active Voltage Positioning (AVP) with Internal Compensation

Selectable $0^\circ/90^\circ/180^\circ$ (LTC3615) or selectable $140^\circ/180^\circ$ (LTC3615-1) Phase Shift Between Channels

Fixed Internal and Programmable External Soft-Start

Accurate Start-Up Tracking Capability

DDR Memory Mode>

Available in $4mm \times 4mm$ QFN-24 and eTSSOP-24 Packages

Application

Point-of-Load Supplies

Distributed Power Supplies

Portable Computer Systems

DDR Memory Termination

Handheld Devices

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