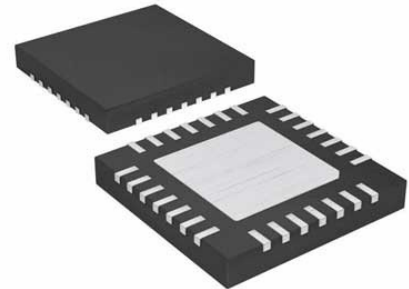


Dual Channel 6A, 20V Monolithic Synchronous Step-Down Regulator

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 LTC3636EUFD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3636/LTC3636-1 is a high efficiency, dual-channel monolithic synchronous buck regulator using a controlled on-time current mode architecture, with phase lockable switching frequency. The operating supply voltage range is from 3.1V to 20V, making it suitable for lithium-ion battery stacks as well as point of load power supply applications from a 12V or 5V input.

The operating frequency is programmable from 500kHz to 4MHz with an external resistor and may be synchronized to an external clock signal. The high frequency capability allows the use of small surface mount inductors and capacitors. The unique constant frequency/controlled on-time architecture is ideal for high step-down ratio applications that operate at high frequency while demanding fast transient response.

The LTC3636/LTC3636-1 can select between forced continuous mode and high efficiency Burst Mode operation. The LTC3636 and LTC3636-1 differ in their output voltage sense range.

Features

Wide VIN Range: 3.1V to 20V

Wide VOUT Range:

0.6V to 5V (LTC3636)

1.8V to 12V (LTC3636-1)

Output Current per Channel: 6A

High Efficiency: Up to 95%

Die Temperature Monitor

Adjustable Switching Frequency: 500kHz to 4MHz

External Frequency Synchronization

Current Mode Operation for Excellent Line and Load Transient Response

0.6V Reference Allows Low Output Voltages

User Selectable Burst Mode® Operation or Forced Continuous Operation

Output Voltage Tracking and Soft-Start Capability

Short-Circuit Protected

Overvoltage Input and Overtemperature Protection

Power Good Status Outputs

Low Profile 4mm × 5mm 28-Lead QFN Package

Application

Distributed Power Systems

Battery-Powered Instruments

Point-of-Load Power Supplies

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