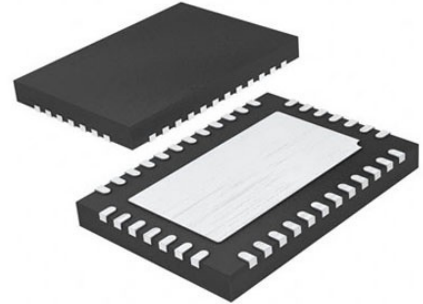


DC/DC Cntrlr Single-OUT Step Down 1000kHz Automotive 38-Pin QFN EP Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QFN-38
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT3840EUF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT3840 is a high voltage synchronous step-down switching regulator controller capable of operating from a 2.5V to 60V supply.

The LT3840's low quiescent current, when configured for user selectable Burst Mode operation, helps extend run time in battery-powered systems by increasing efficiency at light loads. The LT3840 uses a constant frequency, current mode architecture. High current applications are possible with large N-channel gate drivers capable of driving multiple low RDS(ON) MOSFETs.

An integrated buck-boost switching regulator generates a 7.5V bias supply voltage for MOSFET gate drive and IC power allowing higher efficiency operation over the entire input voltage range and eliminating the need for an external bias voltage. An accurate current limit set point regulates the maximum output current. A current monitor reports the average output current.

## Features

Wide Input Range: 2.5V to 60V

Integrated Buck-Boost Supply for 7.5V MOSFET Gate Drive

Programmable Constant-Current Operation with Current Monitor Output

Low IQ: 75 $\mu$ A, 12VIN to 3.3VOUT

Selectable Low Output Ripple Burst Mode<sup>®</sup> Operation

VOUT Up to 60V

Adjustable and Synchronizable: 50kHz to 1MHz

Internal OVLO Protects for Input Transients Up to 80V

Accurate Input Overvoltage and Undervoltage Threshold

Programmable Soft-Start with Voltage Tracking

Power Good and Output OVP

28-Lead TSSOP and 38-Lead 4mm  $\times$  6mm QFN Packages

## Application

Automotive Supplies

Industrial Systems

Distributed DC Power Systems

## 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