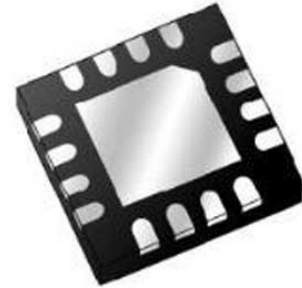


40V, 2.5A, Low IQ Synchronous Step-Up Silent Switcher with PassThru

Manufacturers	Analog Devices, Inc
Package/Case	16-Lead LQFN (3mm × 3mm × 0.94mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT8336EV#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT8336 is a low I_Q , synchronous step-up DC/DC converter. It features Silent Switcher architecture and optional spread spectrum frequency modulation to minimize EMI emissions while delivering high efficiencies at high switching frequencies.

The wide input/output voltage range, low V_{IN} pin quiescent current in Burst Mode operation, and 100% duty cycle capability for the synchronous MOSFET in PassThru operation ($V_{IN} \geq V_{OUT}$), make the LT8336 ideally suited for general purpose step-up and automotive preboost applications.

The LT8336 integrates 40V, 2.5A power switches, operating at a fixed switching frequency programmable between 300kHz and 3MHz and synchronizable to an external clock. Pulse-skipping or Burst Mode operation can be selected, with or without spread-spectrum frequency modulation, to optimize efficiency and EMI performance.

The LT8336 features output soft-start, an output power good flag and output overvoltage lockout.

APPLICATIONS

Features

Silent Switcher

Ultralow EMI Emissions

Optional Spread Spectrum Frequency Modulation

Integrated 40V, 2.5A Power Switches

Wide Input/Output Voltage Range: 2.7V to 40V

Low V

IN

0.3 μ A in Shutdown

4 μ A in Burst Mode

15 μ A in PassThru

Ultralow EMI Emissions

Optional Spread Spectrum Frequency Modulation

0.3 μ A in Shutdown

4 μ A in Burst Mode

15 μ A in PassThru

100% Duty Cycle Capability for Synchronous MOSFET

Adjustable and Synchronizable: 300kHz to 3MHz

Pulse-Skipping or Burst Mode Operation at Light Load

Output Soft-Start and Power Good Monitor

Internal Compensation

Accurate 1V Enable Pin Threshold

Small 16-Lead (3mm \times 3mm) LQFN Package

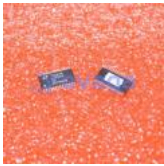
AEC-Q100 Qualified for Automotive Applications

Related Products

Application

Automotive and Industrial Power Supplies

General Purpose Step-Up



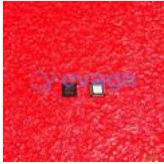
[LT3763EFE](#)

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