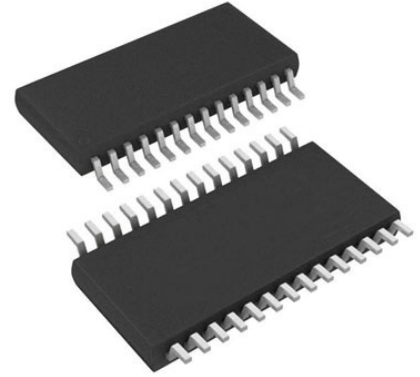


Dual 42V Synchronous Monolithic Step-Down Regulator with 6.5 μ A Quiescent Current

Manufacturers	Analog Devices, Inc
Package/Case	28-Lead TSSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT8616IFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT8616 is a high efficiency, high speed, dual synchronous monolithic step-down switching regulator that consumes only 6.5 μ A of quiescent current with both channels enabled. Both channels contain all switches and necessary circuitry to minimize the need for external components. Low ripple Burst Mode operation enables high efficiency down to very low output currents while minimizing output ripple. A SYNC pin allows synchronization to an external clock. Internal compensation with peak current mode topology allows the use of small inductors and results in fast transient response and good loop stability. The enable pins have accurate 1V thresholds and can be used to program undervoltage lockout. Capacitors on the TR/SS pins programs the output voltage ramp rate during startup while the PG pins signal when each output is within 10% of the programmed output voltage. The LT8616 is available in a TSSOP package for high reliability.

Features

Wide Input Voltage Range: 3.4V to 42V

2.5A and 1.5A Buck Regulators with Separate Inputs

Fast Minimum Switch On-Time: 35ns

Ultralow Quiescent Current Burst Mode® Operation:

6.5µA IQ Regulating 12VIN to 5VOUT and 3.3VOUT

Output Ripple < 15mV

180° Out of Phase Switching

Adjustable: 200kHz to 3MHz

Synchronizable: 250kHz to 3MHz

Accurate 1V Enable Pin Thresholds

Internal Compensation

Output Soft-Start and Tracking

TSSOP Package: Output Stays at or Below Regulation Voltage During Adjacent Pin Short or When a Pin Is Left Floating

Thermally Enhanced 28-Lead TSSOP and 3mm × 6mm QFN Packages

Application

Automotive and Industrial Supplies

General Purpose Step-Down

Related Products



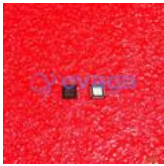
[LT3763EFE](#)

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