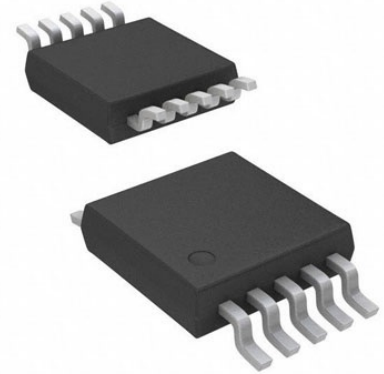


Conv DC-DC 3.7V to 42V Synchronous Step Down Single-Out 0.97V to 39.7V 3.5A
Automotive 16Pin MSOP EP Tube



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	16-TFSOP (0.118, 3.00mm Width)
Product Type	Power Management ICs
RoHS	Green
Lifecycle	

Please submit RFQ for LT8610AXMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT8610AX is a compact, high efficiency, high speed synchronous monolithic step-down switching regulator rated to 175°C junction temperature. The LT8610AX is 100% tested at 175°C. Top and bottom power switches are included with all necessary circuitry to minimize the need for external components. Low ripple Burst Mode operation enables high efficiency across a wide range of output currents while keeping the output ripple low. 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 EN/UV pin has an accurate 1V threshold and can be used to program VIN undervoltage lockout or to shut down the LT8610AX. A capacitor on the TR/SS pin programs the output voltage ramp rate during startup while the PG flag signals when VOUT is within ±9% of the programmed output voltage as well as fault conditions. The LT8610AX is available in small 16-lead MSOP package with exposed pad for low thermal resistance.

Feedback VoltageMin VINOutput = 200kHz to 2.2MHzLT8610AB0.97V3.4V3.5AImproved Burst Mode
EfficiencyLT8610AX0.97V3.4V3.5A175°C Max Junction TempLT8610A0.97V3.4V3.5AHigher Iout, 30ns Min On
TimeLT86100.97V3.4V2.5A-

Features

100% Tested at 175°C

Wide Input Voltage Range: 3.7V to 42V

Ultralow Quiescent Current Burst Mode® Operation

High Efficiency Synchronous Operation:

91% Eff. at 0.5A, at 175°C, 3.3VOUT from 12VIN

92% Eff. at 0.5A, at 175°C, 5VOUT from 12VIN

Adjustable and Synchronizable Frequency: 200kHz to 2.2MHz

No Thermal Shutdown

Internal Compensation

Output Soft-Start and Tracking

Power Good Flag

Small Thermally-Enhanced 16-Lead MSOP Package

Application

Oil and Gas Exploration

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN