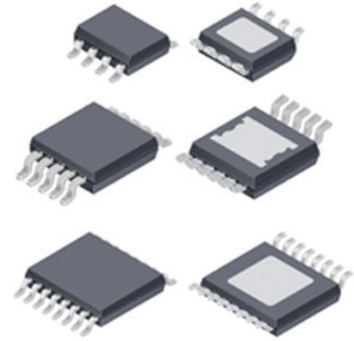


Conv DC-DC 4V to 76V Synchronous Step Down Single-Out 0.8V to 76V 0.5A
Automotive 12-Pin MSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3630AEMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3630A is a high efficiency step-down DC/DC converter with internal high side and synchronous power switches that draws only 12 μ A typical DC supply current while maintaining a regulated output voltage at no load.

The LTC3630A can supply up to 500mA load current and features a programmable peak current limit that provides a simple method for optimizing efficiency and for reducing output ripple and component size. The LTC3630A's combination of Burst Mode[®] operation, integrated power switches, low quiescent current, and programmable peak current limit provides high efficiency over a broad range of load currents.

With its wide input range of 4V to 76V, the LTC3630A is a robust converter suited for regulating a wide variety of power sources. A feedback comparator output enables multiple LTC3630As to be paralleled in higher current applications.

The LTC3630A is available in the thermally-enhanced 3mm \times 5mm DFN and the MSE16 packages.

Vin Range LTC3630 4.5V to 65V LTC3630A 4.5V to 76V

Features

Wide Operating Input Voltage Range: 4V to 76V

Synchronous Operation for Highest Efficiency

Internal High Side and Low Side Power MOSFETs

No Compensation Required

Adjustable 50mA to 500mA Maximum Output Current

Low Dropout Operation: 100% Duty Cycle

Low Quiescent Current: 12 μ A

Wide Output Range: 0.8V to VIN

0.8V \pm 1% Feedback Voltage Reference

Precise RUN Pin Threshold

Internal and External Soft-Start

Programmable 1.8V, 3.3V, 5V or Adjustable Output

Few External Components Required

Low Profile (0.75mm) 3mm \times 5mm DFN and Thermally-Enhanced MSE16 Packages

Application

Industrial Control Supplies

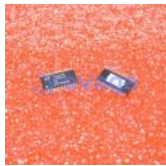
Medical Devices

Portable Instruments

Automotive

Avionics

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