

High Voltage Step-Down Controller With 40 $\mu$ A Quiescent Current; Package: MSOP; No of Pins: 10; Temperature Range: -40°C to +85°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP10
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3824IMSE#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3824 is a step-down DC/DC controller designed to drive an external P-channel MOSFET. With a wide input range of 4V to 60V and a high voltage gate driver, the LTC3824 is suitable for many industrial and automotive high power applications. Constant frequency current mode operation provides excellent performance.

The LTC3824 can be configured for Burst Mode operation. Burst Mode operation enhances low current efficiency (only 40 $\mu$ A quiescent current) and extends battery run time. The switching frequency can be programmed up to 600kHz and is easily synchronizable.

Other features include current limit, soft-start, micropower shutdown, and Burst Mode disable.

The LTC3824 is available in a 10-lead MSE power package.

## Features

Wide Input Range: 4V to 60V

Current Mode Constant Frequency PWM

Very Low Dropout Operation: 100% Duty Cycle

Programmable Switching Frequency: 200kHz to 600kHz

Selectable High Efficient Burst Mode® Operation: 40µA Quiescent Current

Easy Synchronization

8V, 2A Gate Drive ( $V_{CC} > 10V$ ) for Industrial High Voltage P-Channel MOSFET

Programmable Soft-Start

Programmable Current Limit

Available in a Small 10-Pin Thermally Enhanced MSE Package

## Application

Industrial and Automotive Power Supplies

Telecom Power Supplies

Distributed 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