

Conv DC-DC 3.6V to 36V Synchronous Step Down Dual-Out 0.8V to 35.28V 0.7A/0.7A  
Automotive 14-Pin DFN EP Tube



Images are for reference only

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-14
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LT3509IDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT3509 is a dual, current mode, step-down switching regulator, with internal power switches each capable of providing 700mA output current. This regulator provides a compact and robust solution for multi-rail systems in harsh environments. It incorporates several protection features including overvoltage lockout and cycle-by-cycle current limit. Thermal shutdown provides additional protection. The loop compensation components and the boost diodes are integrated on-chip. Switching frequency is set by a single external resistor. External synchronization is also possible. The high maximum switching frequency allows the use of small inductors and ceramic capacitors for low ripple. Constant frequency operation above the AM band avoids interference with radio reception, making the LT3509 well suited for automotive applications. Each regulator has an independent shutdown and soft-start control pin. When both converters are powered down, the common circuitry enters a low current shutdown state.

## Features

Two 700mA Switching Regulators with Internal Power Switches

Wide 3.6V to 36V Operating Range

Overvoltage Lockout Protects Circuit Through 60V Supply Transients

Short-Circuit Robust

Low Dropout Voltage: 95% Maximum Duty Cycle

Adjustable 300kHz to 2.2MHz Switching Frequency Synchronizable Over the Full Range

Uses Small Inductors and Ceramic Capacitors

Integrated Boost Diodes

Internal Compensation

Thermally Enhanced 14-Lead (4mm × 3mm) DFN and 16 Lead MSOP Packages

## Application

Automotive Electronics

Industrial Controls

Wall Transformer Regulation

Networking Devices

CPU, DSP, or FPGA Power

## 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



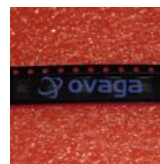
### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN