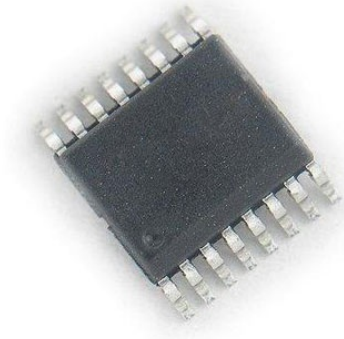


DC/DC Cntrlr Single-OUT Step Down 600kHz Automotive 16-Pin SSOP N Tube

Manufacturers	Analog Devices, Inc
Package/Case	SSOP16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3703IGN-5#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3703-5 is a synchronous step-down switching regulator controller that can directly step-down voltages from up to 60V, making it ideal for telecom and automotive applications. The LTC3703-5 drives external logic level N-channel MOSFETs using a constant frequency (up to 600kHz), voltage mode architecture.

A precise internal reference provides 1% DC accuracy. A high bandwidth error amplifier and patented* line feed forward compensation provide very fast line and load transient response. Strong 1Ω gate drivers allow the LTC3703-5 to drive multiple MOSFETs for higher current applications. The operating frequency is user programmable from 100kHz to 600kHz and can also be synchronized to an external clock for noise-sensitive applications. Current limit is programmable with an external resistor and utilizes the voltage drop across the synchronous MOSFET to eliminate the need for a current sense resistor. For applications requiring up to 100V operation, refer to the LTC3703 data sheet.

LTC3703-5LTC3703Maximum VIN60V100VMOSFET Gate Drive 4.5V to 15V9.3V to 15VVCC UV+3.7V 8.7VVCC UV- 3.1V6.2V

Features

High Voltage Operation: Up to 60V

Large 1Ω Gate Drivers (with 5V Supply)

No Current Sense Resistor Required

Step-Up or Step-Down DC/DC Converter

Dual N-Channel MOSFET Synchronous Drive

Excellent Line and Load Transient Response

Programmable Constant Frequency: 100kHz to 600kHz

Synchronizable up to 600kHz

Selectable Pulse Skip Mode Operation

Low Shutdown Current: 25μA Typ

Programmable Current Limit

Undervoltage Lockout

Programmable Soft-Start

16-Pin Narrow SSOP and 28-Pin SSOP Packages

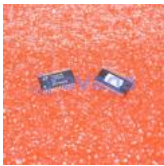
Application

48V Telecom and Base Station Power Supplies

Networking Equipment, Servers

Automotive and Industrial Control

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