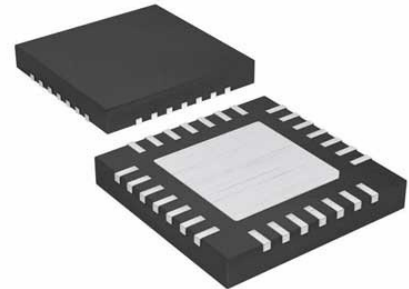


60V, 4A Synchronous Step-Down Regulator for Inverting Outputs

Manufacturers	Analog Devices, Inc
Package/Case	28-Lead QFN (4mm x 5mm x 0.75mm w/ EP)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC7149EUFDF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC7149 is a high efficiency 60V, 4A synchronous monolithic step-down regulator for inverting output applications. The regulator features a single resistor programmable output voltage and high efficiency over a wide VOUT range.

The inverting regulator operates from an input voltage range of 3.4V to 60V and provides an adjustable output from (-28V) to zero volts while delivering up to 4A of inductor current. The switching frequency is also set with an external resistor. A user-selectable mode input is provided to allow the user to trade off ripple noise for efficiency at light loads; Burst Mode operation provides the highest efficiency at light loads, while forced continuous mode provides low output ripple. The MODE/SYNC pin can also be used to synchronize the switching frequency to an external clock. Internal level-shift circuits allow the I/O pins (RUN, MODE/SYNC, PGOOD) to be referenced to board GND.

The LTC7149 operates with a peak current mode architecture that allows for fast transient response with inherent cycle-to-cycle current limit protection.

Features

Wide VIN Range: 3.4V to 60V

Wide VOUT Range: 0V to -28V

Single Resistor VOUT Programming

Integrated 110mΩ Top N-Channel/50mΩ Bottom N-Channel MOSFETs

Regulated IQ: 440μA, Shutdown IQ: 15μA

Board GND Referenced I/O Pins (RUN, PGOOD, MODE/SYNC)

Accurate Resistor Programmable Frequency (300kHz to 3MHz) with ±50% Frequency Sync Range

92% Efficiency with 12 VIN and -5VOUT

Peak Current Mode Operation

Burst Mode® Operation, Forced Continuous Mode

Programmable Soft-Start

Overtemperature Protection

Available in 28-Lead (4mm x 5mm) QFN and TSSOP Packages

Application

Industrial Applications

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