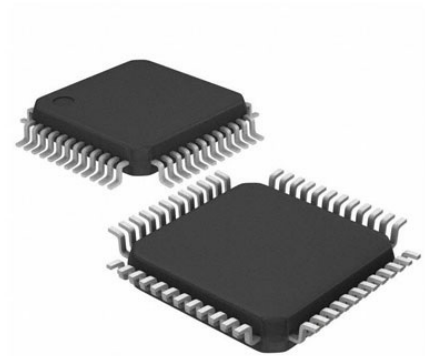


DC/DC Cntrlr Dual-OUT Step Down 340kHz Automotive 48-Pin LQFP EP Tray

Manufacturers	Analog Devices, Inc
Package/Case	48-LQFP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC7810ILXE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC7810 is a high performance dual step-down DC/DC switching regulator controller that drives all N-channel synchronous power MOSFET stages that can operate from voltages up to 140V. A constant frequency current mode architecture allows a phase-lockable frequency of up to 720kHz.

The low no-load quiescent current extends operating run time in battery-powered systems. The LTC7810 features a precision 1V reference, enabling the output voltage to be programmed from 1V to 60V. The gate drive voltage for the LTC7810 can be programmed to 6V, 8V, or 10V to allow the use of logic-level or standard-threshold FETs and to maximize efficiency.

The LTC7810 additionally features spread spectrum operation which significantly reduces the peak radiated and conducted noise on both the input and output supplies, making it easier to comply with electromagnetic interference (EMI) standards.

Features

Wide VIN Range: 4.5V to 140V (150V Abs Max)

Wide Output Voltage Range: $1V \leq V_{OUT} \leq 60V$

Low Operating IQ: 16 μ A (48VIN to 12VOUT and 3.3VOUT)

Adjustable Gate Drive Level Up to 10V

Optional Spread Spectrum Operation

Very Low Dropout: 100% Duty Cycle Operation

Low IQ in Dropout: 78 μ A (One Channel On)

RSENSE or Inductor DCR Current Sensing

Out-of-Phase Controllers Reduce Required Input Capacitance and Power Supply Induced Noise

Phase-Lockable Frequency (75kHz to 720kHz)

Programmable Fixed Frequency (50kHz to 750kHz)

Selectable Continuous, Pulse-Skipping, or Low Ripple Burst Mode® Operation at Light Loads

Onboard LDO or External NMOS LDO for DRVCC

EXTVCC LDO Powers Drivers from VOUT

Programmable Input Overvoltage Lockout

48-Lead (7mm \times 7mm) eLQFP Package

Application

Automotive and Transportation

Industrial and Telecommunications

Military/Avionics

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN