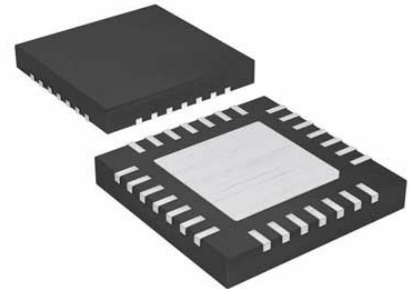


20V, 15A Synchronous Step-Down Silent Switcher 2 Regulator

Manufacturers	Analog Devices, Inc
Package/Case	28-Lead LQFN (4mm x 5mm x 0.74mm w/ EP)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC7151SEV#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC7151S is a high efficiency monolithic synchronous buck regulator capable of delivering 15A to the load. It uses a phase lockable controlled on-time constant frequency, current mode architecture. PolyPhase operation allows multiple LTC7151S regulators to run out-of-phase, which reduces the amount of input and output capacitors required. The operating supply voltage range is from 3.1V to 20V.

The operating frequency is programmable from 400kHz to 3MHz with an external resistor. The high frequency capability allows the use of physically smaller inductor and capacitor sizes. For switching noise sensitive applications, the LTC7151S can be externally synchronized from 400kHz to 3MHz. The PHMODE pin allows the user control of the phase of the outgoing clock signal. The unique constant frequency/controlled on-time architecture is ideal for high step-down ratio applications that operate at high frequencies while demanding fast transient response. The LTC7151S uses second generation Silent Switcher 2 technology including integrated bypass capacitors to deliver a highly efficient solution at high frequencies with excellent EMI performance.

Features

Silent Switcher®2 Architecture for Low EMI

VIN Range: 3.1V to 20V

VOUT Range: 0.5V to 5.5V

Differential VOUT Remote Sense

Adjustable Frequency: 400kHz to 3MHz

PolyPhase® Operation: Up to 12 Phases

Output Tracking and Soft-Start

Reference Accuracy: ±1% Overtemperature

Current Mode Operation for Excellent Line and Load Transient Response

Accurate 1.2V Run Pin Threshold

Supports Forced Continuous/Discontinuous Modes

28-Lead Thermally Enhanced 4mm × 5mm × 0.74mm LQFN Package

Application

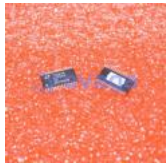
Automotive and Industrial Power Supplies

Server Power Applications

Distributed Power Systems

Point-of-Load Supply for ASIC, FPGA, DSP, µP, etc.

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