

Linear Technology, LTC3891EFE#PBF Step-Down Switching Regulator 5A Adjustable, 0.8V, 24V, 20-Pin, TSSOP

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP20
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3891EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3891 is a high performance step-down switching regulator DC/DC controller that drives an all N-channel synchronous power MOSFET stage. A constant frequency current mode architecture allows a phase-lockable frequency of up to 750kHz.

The 50 μ A no-load quiescent current extends operating run time in battery-powered systems. OPTI-LOOP[®] compensation allows the transient response to be optimized over a wide range of output capacitance and ESR values. The LTC3891 features a precision 0.8V reference and power good output indicator. A wide 4V to 60V input supply range encompasses a wide range of intermediate bus voltages and battery chemistries. The output voltage of the LTC3891 can be programmed between 0.8V to 24V.

The TRACK/SS pin ramps the output voltages during start-up. Current foldback limits MOSFET heat dissipation during short-circuit conditions. The PLLIN/MODE pin selects among Burst Mode operation, pulse-skipping mode, or continuous conduction mode at light loads.

Features

Wide VIN Range: 4V to 60V (65V Abs Max)

Low Operating IQ: 50 μ A

Wide Output Voltage Range: $0.8V \leq V_{OUT} \leq 24V$

RSENSE or DCR Current Sensing

Phase-Lockable Frequency (75kHz to 750kHz)

Programmable Fixed Frequency (50kHz to 900kHz)

Selectable Continuous, Pulse-Skipping or Low Ripple Burst Mode[®] Operation at Light Load

Selectable Current Limit

Very Low Dropout Operation: 99% Duty Cycle

Adjustable Output Voltage Soft-Start or Tracking

Power Good Output Voltage Monitor

Output Overvoltage Protection

Low Shutdown IQ: < 14 μ A

Internal LDO Powers Gate Drive from VIN or EXTVCC

No Current Foldback During Start-Up

Small 20-Pin 3mm \times 4mm QFN and TSSOP Packages

Application

Automotive Always-On Systems

Battery Powered Digital Devices

Distributed DC 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