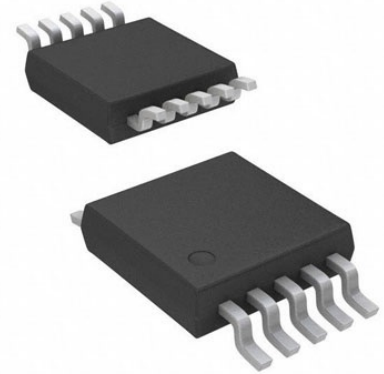


DC-DC Controller, Synchronous Buck (Step Down), 4V to 140V, 1 Output, 900kHz, TSSOP-38



Images are for reference only

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	38-PowerTFSOP (0.173, 4.40mm Width), 31 Leads
Product Type	Power Management ICs
RoHS	Green
Lifecycle	

Please submit RFQ for LTC3895EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3895 is a high performance step-down switching regulator DC/DC controller that drives an all N-channel synchronous power MOSFET stage that can operate from input voltages up to 140V. A constant frequency current mode architecture allows a phase-lockable frequency of up to 850kHz.

The gate drive voltage can be programmed from 5V to 10V to allow the use of logic or standard-level FETs to maximize efficiency. An integrated switch in the top gate driver eliminates the need for an external bootstrap diode. An internal charge pump allows for 100% duty cycle operation.

The low 40 $\mu$ A no-load quiescent current extends operating run time in battery-powered systems. OPTI-LOOP<sup>®</sup> compensation allows the transient response to be optimized over a wide range of output capacitance and ESR values. The LTC3895 features a precision 0.8V reference and power good output indicator. The output voltage can be programmed between 0.8V to 60V using external resistors or pin-programmed for a fixed 5V or 3.3V.

## Features

Wide VIN Range: 4V to 140V (150V Abs Max)

Wide Output Voltage Range: 0.8V to 60V

Adjustable Gate Drive Level: 5V to 10V (OPTI-DRIVE)

Low Operating IQ: 40 $\mu$ A

100% Duty Cycle Operation

No External Bootstrap Diode Required

Selectable Gate Drive UVLO Thresholds

Onboard LDO or External NMOS LDO for DRVCC

EXTVCC LDO Powers Drivers from VOUT

Phase-Lockable Frequency (75kHz to 850kHz)

Programmable Fixed Frequency (50kHz to 900kHz)

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

Adjustable Burst Clamp and Current Limit

Adjustable or Fixed (5V/3.3V) Output Voltage

Power Good Output Voltage Monitor

Programmable Input Overvoltage Lockout

38-Lead TSSOP High Voltage Package

## Application

Automotive and Industrial Power Systems

High Voltage Battery Operated Systems

Telecommunications Power Systems

## 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