

DC/DC Cntrlr Single-OUT Step Up 500kHz Automotive 24-Pin TSSOP EP Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	TSSOP24
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3862EFE-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3862-1 is a two phase constant frequency, current mode boost and SEPIC controller that drives N-channel power MOSFETs. Two phase operation reduces system filtering capacitance and inductance requirements.

The operating frequency can be set with an external resistor over a 75kHz to 500kHz range and can be synchronized to an external clock using the internal PLL. Multi-phase operation is possible using the SYNC input, the CLKOUT output and the PHASEMODE control pin allowing 2-, 3-, 4-, 6- or 12-phase operation.

Other features include an internal 10V LDO with undervoltage lockout protection for the gate drivers, a precision RUN pin threshold with programmable hysteresis, soft-start and programmable leading edge blanking and maximum duty cycle.

Part Number VIN Range INTVCC UV+UV-LTC3862 4V to 36V 5V 3.3V 2.9V LTC3862-18.5V to 36V 10V 7.5V 7.0V LTC3862-25.5V to 36V 10V 4.4V 3.9V

## Features

Wide VIN Range: 8.5V to 36V Operation

2-Phase Operation Reduces Input and Output Capacitance

Fixed Frequency, Peak Current Mode Control

10V Gate Drive for High Voltage MOSFETs

Adjustable Slope Compensation Gain

Adjustable Max Duty Cycle (Up to 96%)

Adjustable Leading Edge Blanking

Programmable Operating Frequency with One External Resistor (75kHz to 500kHz)

Phase-Lockable Fixed Frequency 50kHz to 650kHz

SYNC Input and CLKOUT for 2-, 3-, 4-, 6- or 12-Phase Operation (PHASEMODE Programmable)

Internal 10V LDO Regulator

24-Lead Narrow SSOP Package

5mm × 5mm QFN Package with 0.65mm Lead Pitch

24-Lead Thermally Enhanced TSSOP Package

## Application

Automotive, Telecom and Industrial Power Supplies



### 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