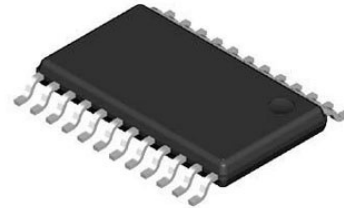


Multi-Phase Current Mode Step-Up DC/DC Controller

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	24-Lead TSSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3862HFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3862 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 5V 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 I<sub>N</sub> V<sub>CC</sub> 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: 4V to 36V Operation

2-Phase Operation Reduces Input and Output Capacitance

Fixed Frequency, Peak Current Mode Control

5V Gate Drive for Logic-Level 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 5V LDO Regulator

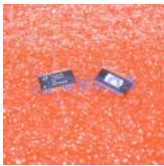
24-Lead Narrow SSOP Package

5mm × 5mm QFN with 0.65mm Lead Pitch and 24-Lead Thermally Enhanced TSSOP Packages

## 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