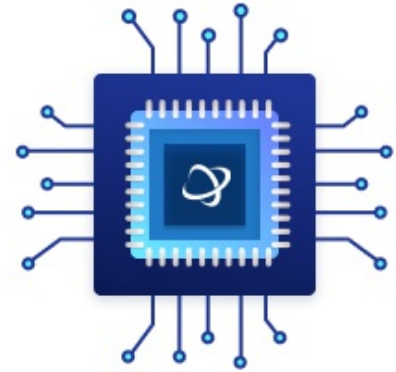


Linear Technology, LT3501EFE#PBF Step-Down Switching Regulator Dual 3A Adjustable 20-Pin, TSSOP

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	20TSS
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3501EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT3501 is a dual current mode PWM step-down DC/DC converter with two internal 3.5A switches. Independent input voltage, feedback, soft-start and power good pins for each channel simplify complex power supply tracking/sequencing requirements.

Both converters are synchronized to either a common external clock input or a resistor programmable fixed 250kHz to 1.5MHz internal oscillator. At all frequencies, a 180° phase relationship between channels is maintained, reducing voltage ripple and component size. Programmable frequency allows for optimization between efficiency and external component size.

Minimum input-to-output voltage ratios are improved by allowing the switch to stay on through multiple clock cycles, only switching off when the boost capacitor needs recharging, resulting in ~95% maximum duty cycle.

Each output can be independently disabled using its own soft-start pin, or by using the SHDN pin the entire part can be placed in a low quiescent current shutdown mode.

The LT3501 is available in a 20-lead TSSOP package with exposed leadframe for low thermal resistance.

## Features

Wide Input Range: 3.1V to 25V

Two Switching Regulators with 3A Output Capability

Independent Supply to Each Regulator

Adjustable/Synchronizable Fixed Frequency Operation from 250kHz to 1.5MHz

Antiphase Switching

Outputs Can be Paralleled

Independent, Sequential, Ratiometric or Absolute Tracking Between Outputs

Independent Soft-Start and Power Good Pins

Enhanced Short-Circuit Protection

Low Dropout: 95% Maximum Duty Cycle

Low Shutdown Current: <10 $\mu$ A

20-Lead TSSOP Package with Exposed Leadframe

## Application

DSP Power Supplies

Disc Drives

DSL/Cable Modems

Wall Transformer Regulation

Distributed Power Regulation

## 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



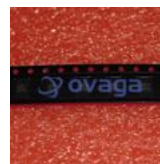
### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN