

Conv DC-DC 3.1V to 25V Step Down Dual-Out 0.8V to 25V 2A/2A 20-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-20
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3510EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3510 is a dual current mode PWM step-down DC/DC converter with two internal 2.5A 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 LT3510 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 2A 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 μ A

20-Lead TSSOP Package with Exposed Leadframe

Application

DSP Power Supplies

Disc Drives

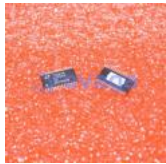
DSL/Cable Modems

Wall Transformer Regulation

Distributed Power Regulation

PCI Cards

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



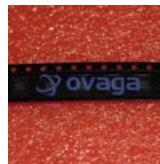
[LTC3440EMS](#)

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MSOP10



[LTC2990IMS#PBF](#)

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10MSOP



[LT4295IUFD#PBF](#)

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