

Triple Monolithic Step-Down Regulator with LDO; Package: QFN; No of Pins: 38;
Temperature Range: -40°C to +125°C

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|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | QFN-38 |
| Product Type | Power Management ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LT3507EUHF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3507 is a triple, current mode, DC/DC converter with internal power switches and a low dropout regulator. The switching converters are step-down converters capable of generating one 2.4A output and two 1.5A outputs. All three converters are synchronized to a single oscillator. The 2.4A output runs with opposite phase to the other two converters, reducing input ripple current. Each regulator has independent shutdown and soft-start circuits, and generates a power good signal when its output is in regulation, easing power supply sequencing and interfacing with microcontrollers and DSPs.

The switching frequency is set with a single resistor yielding a range of 250kHz to 2.5MHz. The high switching frequency allows the use of small inductors and capacitors resulting in a very small triple output supply. The constant switching frequency, combined with low impedance ceramic capacitors, results in low, predictable output ripple. With its wide input voltage range of 4V to 36V, the LT3507 regulates a broad array of power sources including 5V logic rails, unregulated wall transformers, lead acid batteries and distributed power supplies.

Output Current Package LT3507 2.5A, 1.5A, 1.5A5 × 7 QFN-38 LT3507A 2.7A, 1.8A, 1.8A5 × 7 QFN-38, TSSOP-38E

Features

Wide Input Range: 4V to 36V

One 2.4A and Two 1.5A Output Switching Regulators with Internal Power Switches

Low Dropout Linear Regulator with External Transistor

Antiphase Switching Reduces Ripple

Independent Run, Tracking/Soft-Start, and Power Good Indicators Ease Supply Sequencing

Uses Small Inductors and Ceramic Capacitors

Adjustable, 250kHz to 2.5MHz Switching Frequency, Synchronizable Over the Full Range

User Programmable Overvoltage and Undervoltage Lockouts

Thermally Enhanced, 38-Lead 5mm × 7mm QFN Package

Application

DSL and Cable Modems

Distributed Power Regulation

DSP Power

Automotive





Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP-8P



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10MSOP



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BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN