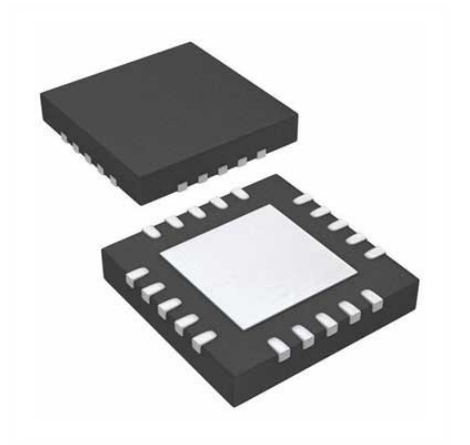


Linear USB Battery Charger with Buck and Buck-Boost Regulators 4.3V to 5.5V 20-Pin QFN EP Tube

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



Images are for reference only

Please submit RFQ for LTC3558EUD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3558 is a USB battery charger with dual high efficiency switching regulators. The device is ideally suited to power single-cell Li-Ion/Polymer based handheld applications needing multiple supply rails.

Battery charge current is programmed via the PROG pin and the HPWR pin with capability up to 950mA of current at the BAT pin. The CHRNG pin allows battery status to be monitored continuously during the charging process. An internal timer controls charger termination.

The part includes monolithic synchronous buck and buck-boost regulators that can provide up to 400mA of output current each and operate at efficiencies greater than 90% over the entire Li-Ion/Polymer battery range. The buck-boost regulator can regulate its programmed output voltage at its rated deliverable current over the entire Li-Ion range without drop out, increasing battery runtime.

The LTC3558 is offered in a low profile (0.75mm), thermally enhanced, 20-lead (3mm × 3mm) QFN package.

Features

Battery Charger

Standalone USB Charger

Up to 950mA Charge Current Programmable via Single Resistor

HPWR Input Selects 20% or 100% of Programmed Charge Current

NTC Input for Temperature Qualified Charging

Internal Timer Termination

Bad Battery Detection

Switching Regulators (Buck and Buck-Boost)

Up to 400mA Output Current per Regulator

2.25MHz Constant-Frequency Operation

Power Saving Burst Mode® Operation

Low Profile, 20-Lead, 3mm × 3mm QFN Package

Application

SD/Flash-Based MP3 Players

Low Power Handheld Applications

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EV#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



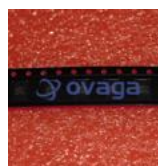
[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN