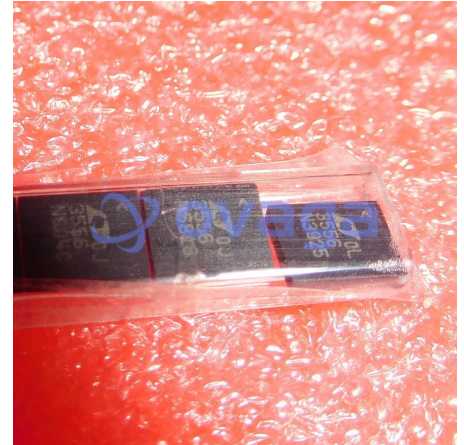


High Efficiency USB Power Manager with Dual Buck and Buck-Boost DC/DCs; Package: QFN; No of Pins: 28; Temperature Range: -40°C to +125°C

Manufacturers	Analog Devices, Inc
Package/Case	QFN28
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3556EUFD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3556 is a highly integrated power management and battery charger IC for Li-Ion/Polymer battery applications. It includes a high efficiency current limited switching PowerPath manager with automatic load prioritization, a battery charger, an ideal diode, and three synchronous switching regulators (two bucks and one buck-boost). Designed specifically for USB applications, the LTC3556's switching power manager automatically limits input current to a maximum of either 100mA or 500mA for USB applications or 1A for adapter-powered applications.

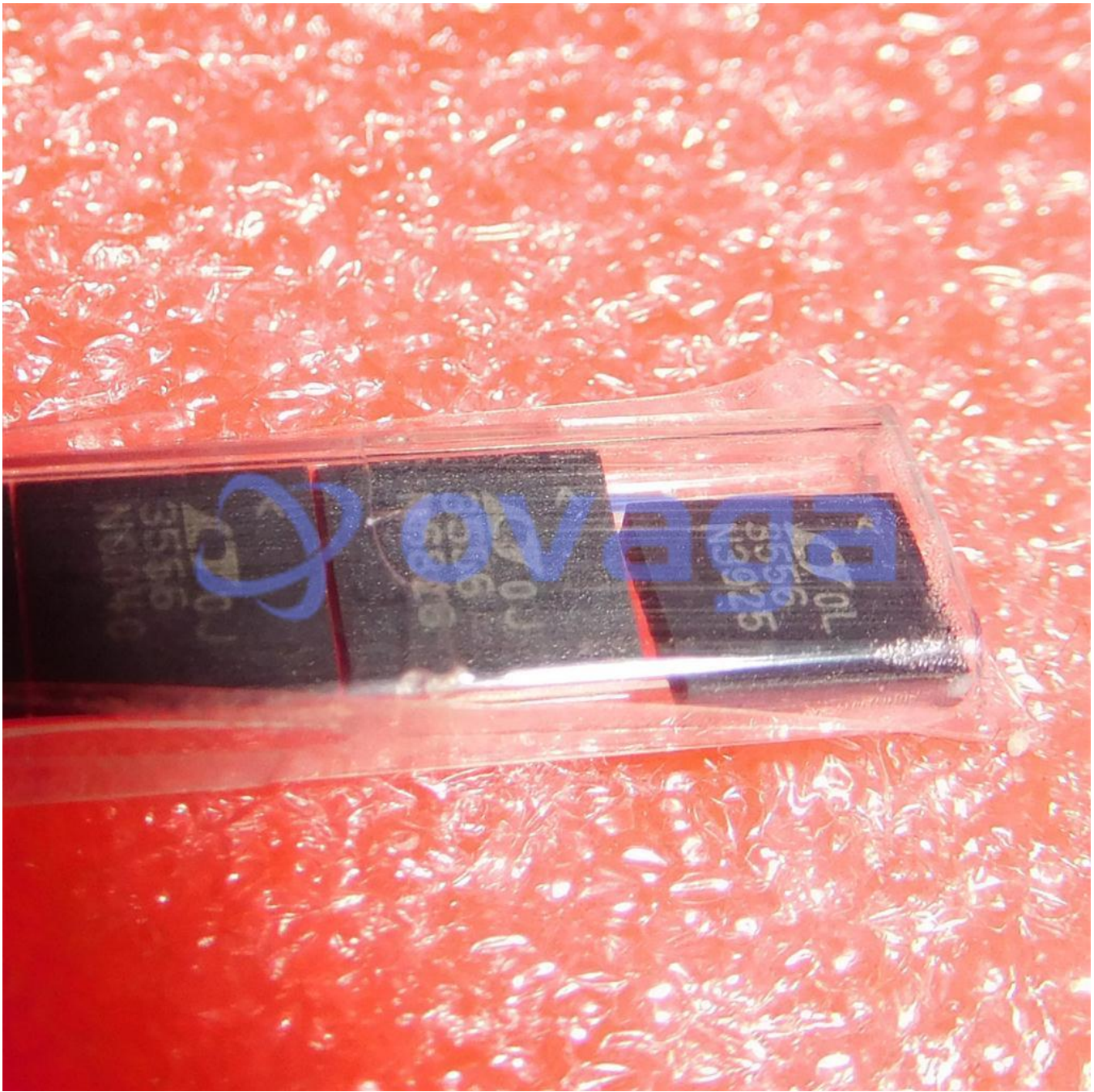
The LTC3556's switching input stage transmits nearly all of the 2.5W available from the USB port to the system load with minimal power wasted as heat. This feature allows the LTC3556 to provide more power to the application and eases the constraint of thermal budgeting in small spaces. The two buck regulators can provide up to 400mA each and the buck-boost can deliver 1A.

The LTC3556 is available in the low profile 28-pin (4mm × 5mm × 0.75mm) QFN surface mount package.

Features

Application

High Efficiency Switching PowerPath™ Controller with Bat-Track™ Adaptive Output Control	HDD-Based MP3 Players, PDAs, GPS, PMPs
Programmable USB or Wall Current Limit (100mA/500mA/1A)	Other USB-Based Handheld Products
Full Featured Li-Ion/Polymer Battery Charger	
Instant-On Operation with a Discharged Battery	
1.5A Maximum Charge Current	
Internal 180mΩ Ideal Diode Plus External Ideal Diode Controller Powers Load in Battery Mode	
Low No-Load IQ when Powered from BAT (<30μA)	
DC/DCs	
Dual High Efficiency Buck DC/DCs (400mA/400mA IOU)	
High Efficiency Buck-Boost DC/DC (1A IOU)	
All Regulators Operate at 2.25MHz	
Dynamic Voltage Scaling on Two Buck Outputs	
I2C Control of Enables, Mode, Two VOUT Settings	
ENALL Pin with Power-Up Sequence Control	
Low No-Load Quiescent Current: 20μA Each	



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