

Special Function IC, Super capacitor Backup Controller & System Monitor, 4.5 V to 35 V in, QFN-38

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 LTC3350EUHF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3350 is a backup power controller that can charge and monitor a series stack of one to four supercapacitors. The LTC3350's synchronous step-down controller drives N-channel MOSFETs for constant current/constant voltage charging with programmable input current limit. In addition, the step-down converter can run in reverse as a step-up converter to deliver power from the supercapacitor stack to the backup supply rail. Internal balancers eliminate the need for external balance resistors and each capacitor has a shunt regulator for overvoltage protection.

The LTC3350 monitors system voltages, currents, stack capacitance and stack ESR which can all be read over the I2C/SMBus. The dual ideal diode controller uses N-channel MOSFETs for low loss power paths from the input and supercapacitors to the backup system supply. The LTC3350 is available in a low profile 38-lead 5mm × 7mm × 0.75mm QFN surface mount package.

Features

High Efficiency Synchronous Step-Down CC/CV Charging of One to Four Series Supercapacitors

Step-Up Mode in Backup Provides Greater Utilization of Stored Energy in Supercapacitors

14-Bit ADC for Monitoring System Voltages/Currents, Capacitance and ESR

Active Overvoltage Protection Shunts

Internal Active Balancers—No Balance Resistors

VIN: 4.5V to 35V, VCAP(n): Up to 5V per Capacitor, Charge/Backup Current: 10+A

Programmable Input Current Limit Prioritizes System Load Over Capacitor Charge Current

Dual Ideal Diode PowerPath™ Controller

All N-FET Charger Controller and PowerPath Controller

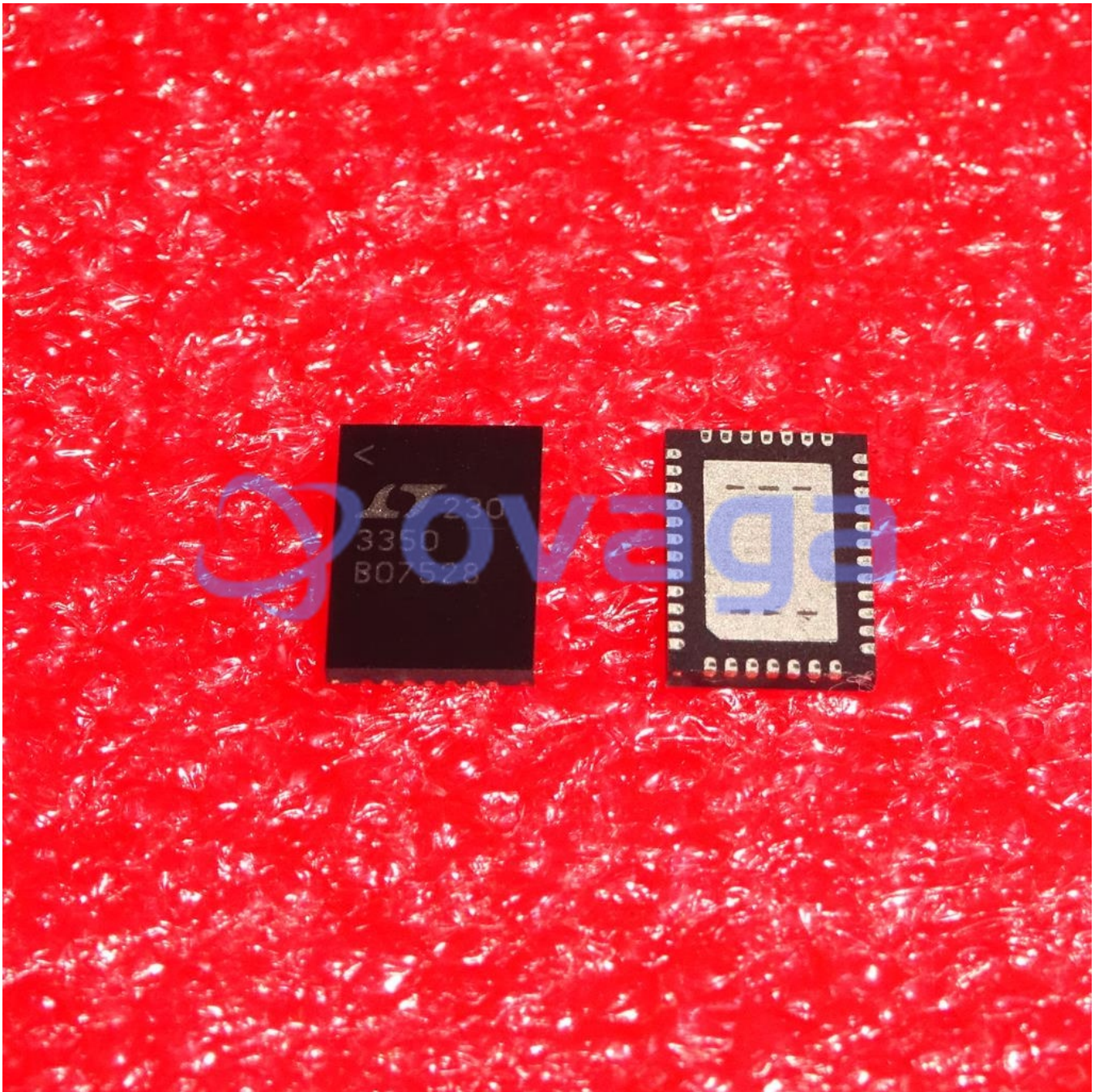
Compact 38-Lead 5mm × 7mm QFN Package

Application

High Current 12V Ride-Through UPS

Servers/Mass Storage/High Availability Systems





Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTC2990IMS#PBF](#)

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10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN