

Gas Gauge Li-Ion 1000mA Automotive 6-Pin DFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	DFN-6
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2942CDCB-1#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2942-1 measures battery charge state, battery voltage and chip temperature in handheld PC and portable product applications. Its operating range is perfectly suited for single cell Li-Ion batteries. A precision coulomb counter integrates current through an internal sense resistor between the battery's positive terminal and the load or charger. Battery voltage and on-chip temperature are measured with an internal 14-bit No Latency $\Delta\Sigma^{\text{TM}}$ ADC. The three measured quantities (charge, voltage and temperature) are stored in internal registers accessible via the onboard SMBus/I2C interface.

The LTC2942-1 features programmable high and low thresholds for all three measured quantities. If a programmed threshold is exceeded, the device communicates an alert using either the SMBus alert protocol or by setting a flag in the internal status register.

Integrated Sense Resistor LTC2942No LTC2942-1Yes

Features

Indicates Accumulated Battery Charge and Discharge

SMBus/I2C Interface

Integrated 50mΩ High Side Sense Resistor

High Accuracy Analog Integration

ADC Measures Battery Voltage and Temperature

Integrated Temperature Sensor

1% Voltage and Charge Accuracy

Configurable Alert Output/Charge Complete Input

2.7V to 5.5V Operating Range

Quiescent Current Less than 100μA

Small 6-Pin 2mm × 3mm DFN package

Application

Low Power Handheld Products

Cellular Phones

MP3 Players

Cameras

GPS



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