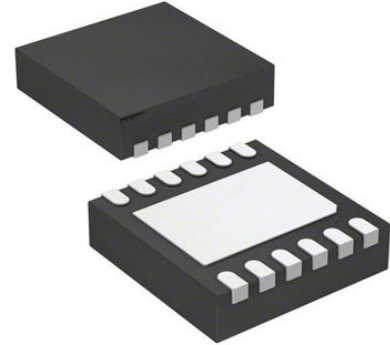


Gas Gauge Li-Ion Automotive 6-Pin DFN EP T/R

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	6-WDFN
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2942IDCB#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC2942 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 a 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  $\Delta\Sigma$ ™ ADC. The three measured quantities (charge, voltage and temperature) are stored in internal registers accessible via the on-board SMBus/I2C interface.

The LTC2942 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.

The LTC2942 requires only a single low value sense resistor to set the measured current range.

Integrated Sense Resistor LTC2942No LTC2942-1Yes

## Features

Indicates Accumulated Battery Charge and Discharge

High Accuracy Analog Integration

ADC Measures Battery Voltage and Temperature

Integrated Temperature Sensor

High Side Sense

1% Voltage and Charge Accuracy

SMBus/I2C Interface

Configurable Alert Output/Charge Complete Input

2.7V to 5.5V Operating Range

Quiescent Current Less than 100 $\mu$ A

Small 6-Pin 2mm  $\times$  3mm DFN package

## Application

Low Power Handheld Products

Cellular Phones

MP3 Players

Cameras

GPS

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



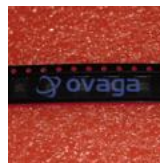
### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN