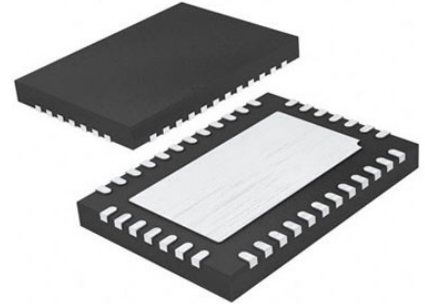


Multichemistry Buck Battery Charger Controller with Digital Telemetry System

Manufacturers	Analog Devices, Inc
Package/Case	38-Lead QFN (5mm x 7mm w/ EP)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4015IUHF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4015 is a complete synchronous buck controller/charger with pin-selectable, chemistry specific charging and termination algorithms.

The LTC4015 can charge Li-Ion/Polymer, LiFePO₄, or lead-acid batteries. Battery charge voltage is pin selectable and I²C adjustable. Input current limit and charge current can be accurately programmed with sense resistors and can be individually adjusted via the I²C serial port. A digital telemetry system monitors all system power parameters.

Safety timer and current termination algorithms are supported for lithium chemistry batteries. The LTC4015 also includes automatic recharge, precharge (Li-Ion) and NTC thermistor protection. The LTC4015's I²C port allows user customization of charger algorithms, reading of charger status information, configuration of the maskable and programmable alerts, plus use and configuration of the Coulomb counter.

Available in a 38-Lead 5mm × 7mm QFN package.

Features

Multichemistry Li-Ion/Polymer, LiFePO₄, or Lead-Acid Battery Charger with Termination

High Efficiency Synchronous Buck Battery Charger

Digital Telemetry System Monitors VBAT, IBAT, RBAT, NTC Ratio (Battery Temperature), VIN, IIN, VSYSTEM, Die Temperature

Coulomb Counter and Integrated 14-Bit ADC

Wide Charging Input Voltage Range: 4.5V to 35V

Wide Battery Voltage Range: Up to 35V

Input Undervoltage Charge Current Limit Loop

Maximum Power Point Tracking

Optional I2C Serial Port Control

Input Current Limit Prioritizes System Load Output

Input and Output Ideal Diodes Provide Low Loss PowerPath™ Operation

Instant-On Operation with Discharged Battery

Application

Portable Medical Instruments/Military Equipment

Industrial Handhelds/Lighting

Ruggedized Notebook/Tablet Computers

Solar Battery Chargers

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EX#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