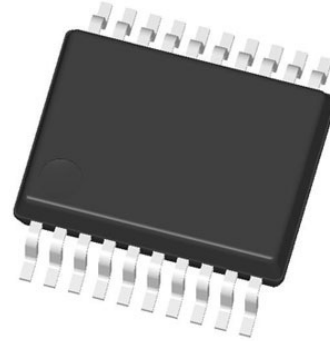


Battery Charge Controller 20-Pin, SSOP

Manufacturers	Analog Devices, Inc
Package/Case	20SSOP
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4008EGN#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4008 is a constant-current/constant-voltage charger controller. The PWM controller uses a synchronous, quasi-constant frequency, constant off-time architecture that will not generate audible noise even when using ceramic capacitors. Charging current is programmable with a sense resistor and programming resistor to $\pm 4\%$ typical accuracy. Charging current can be monitored as a voltage across the programming resistor. An external resistor divider and precision internal reference set the final float voltage.

The LTC4008 includes a thermistor sensor input that will suspend charging if an unsafe temperature condition is detected and will automatically resume charging when battery temperature returns to within safe limits; a FAULT pin indicates this condition. A FLAG pin indicates when charging current has decreased below 10% of the programmed current. An external sense resistor programs AC adapter current limiting. The ICL pin indicates when the charging current is being reduced by input current limiting so that the charging algorithm can adapt.

Features

General Purpose Charger Controller

High Conversion Efficiency: Up to 96%

Output Currents Exceeding 4A

AC Adapter Current Limiting Maximizes Charge Rate

Thermistor Input for Temperature Qualified Charging

Wide Input Voltage Range: 6V to 28V

Wide Output Voltage: 3V to 28V

0.5V Dropout Voltage; Maximum Duty Cycle: 98%

Programmable Charge Current: $\pm 4\%$ Accuracy

Indicator Outputs for Charging, C/10 Current Detection, AC Adapter Present, Input Current Limiting and Faults

Charging Current Monitor Output

Available in a 20-Pin Narrow SSOP Package

Application

Notebook Computers

Portable Instruments

Battery Backup Systems

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