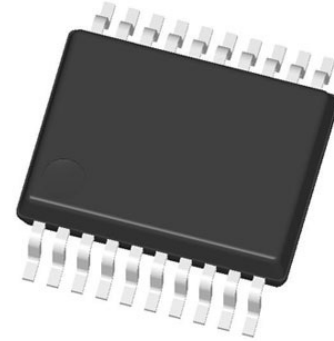


Switching Battery Charger NiCD/NiMH 20-Pin TSSOP EP Tube

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



Images are for reference only

Please submit RFQ for LTC4011CFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4011 provides a complete, cost-effective nickel battery fast charge solution in a small package using few external components. A 550kHz PWM current source controller and all necessary charge initiation, monitoring and termination control circuitry are included.

The LTC4011 automatically senses the presence of a DC adapter and battery insertion or removal. Heavily discharged batteries are precharged with a trickle current. The LTC4011 can simultaneously use both $-\Delta V$ and $\Delta T/\Delta t$ fast charge termination techniques and can detect various battery faults. If necessary, a top-off charge is automatically applied to NiMH batteries after fast charging is completed. The IC will also resume charging if the battery self-discharges after a full charge cycle.

All LTC4011 charging operations are qualified by actual charge time and maximum average cell voltage. Charging may also be gated by minimum and maximum temperature limits. NiMH or NiCd fast charge termination parameters are pin-selectable.

Integrated PowerPath control support ensures that the system remains powered at all times without allowing load transients to adversely affect charge termination.

Features

Complete NiMH/NiCd Charger for 1 to 16 Cells

No Microcontroller or Firmware Required

550kHz Synchronous PWM Current Source Controller

No Audible Noise with Ceramic Capacitors

PowerPath™ Control Support

Programmable Charge Current: 5% Accuracy

Wide Input Voltage Range: 4.5V to 34V

Automatic Trickle Precharge

Optional $\Delta T/\Delta t$ Fast Charge Termination

Automatic NiMH Top-Off Charge

Programmable Timer

Automatic Recharge

Multiple Status Outputs

Micropower Shutdown

20-Lead Thermally Enhanced TSSOP Package

Application

Integrated or Standalone Battery Charger

Portable Instruments or Consumer Products

Battery-Powered Diagnostics and Control

Back-Up Battery Management

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN