



## Switching Battery Charger Li-Ion/Li-Pol 1500mA 4.2V 28-Pin SSOP

Manufacturer:	Maxim Integrated	
		MAX1758EAI+ Image
Package/Case:	SSOP28	Images are for reference only
Product Type:	Power Management ICs	Inquiry
RoHS:	RoHS Compliant/Lead free RoHS	
Lifecycle:	Active	

## **General Description**

The MAX1758 is a switch-mode lithium-ion (Li+) battery charger that charges one-to-four cells. It provides a regulated charging current accurate to  $\pm 10\%$  and a regulated voltage with only a  $\pm 0.8\%$  total voltage error at the battery terminals. The internal high-side switch delivers a programmable current of up to 1.5A to charge the battery. The built-in safety timer automatically terminates charging once the adjustable time limit has been reached. The MAX1758 regulates the voltage set point and charging current using two loops that work together to transition smoothly between voltage and current regulation. An additional control loop monitors the total current drawn from the input source (charging + system), and automatically reduces battery-charging current, preventing overload of the input supply and allowing the use of a low-cost wall adapter. The per-cell battery regulation voltage is set between 4.0V and 4.4V using standard 1% resistors. The number of cells is set from 1-to-4 by pin strapping. Battery temperature is monitored by an external thermistor to prevent charging outside the acceptable temperature range. The MAX1758 is available in a space-saving 28-pin SSOP package. Use the MAX1758EVKIT to help reduce design time. For a stand-alone charger with a 14V switch, refer to the MAX1757 data sheet. For a charger controller capable of up to 4A charging current, refer to the MAX1737 data sheet.

Key Features	Application
Stand-Alone Charger for Up to 4 Li+ Batteries	Desktop Cradle Chargers
	Handheld Instruments (PDAs, Palmtops)
	Li+ Battery Packs
	Notebook Computers





## **Recommended For You**

MAX6107EUR+T

Maxim Integrated

MAX5900ABETT+T

Maxim Integrated

SOT23-3

TDFN-6

MAX1636EAP  Maxim Integrated	MAX1673ESA+  Maxim Integrated	MAX1682EUK+T  Maxim Integrated
SSOP20	SOP8	SOT23-5
MAX1720EUT+T	MAX845ESA+T	MAX1681ESA+
Maxim Integrated	Maxim Integrated	Maxim Integrated
SOT23-6	SOP-8	SOP-8
MAX17113ETL+	MAX690CPA+	MAX690MJA
Maxim Integrated	Maxim Integrated	Maxim Integrated
QFN	DIP8	CDIP8

MAX5920BESA+

Maxim Integrated

MAX5903LBEUT

Maxim Integrated

SOT23-6

SOP-8

MAX5922AEUI+

Maxim Integrated

MAX860ESA+

Maxim Integrated

TSSOP28

SOP8