

NERO SWITCHER™ (Nano-IQ Efficient Rapid Output) 880mA Step-Up Boost Regulator

Features

- σ Input Voltage Range from 0.9V to 5.5V
Operates with alkaline, NiMH, Li-Mn, and Li-Ion battery
- σ Output Voltage Range from 1.8V to 5.5V
- σ Up to 880mA Switch Peak Current Limit
- σ Up to 94% Efficiency
- σ 60% Efficiency at 1uA Load Current
- σ **NERO SWITCHER™** Power Save Mode
800nA Quiescent Current at Light Load
- σ **NERO SWITCHER™** Rapid Output Load Transient Responses
- σ Internal compensated
- σ 700kHz Switching Frequency at PWM
- σ 1.4mm x 1.3mm 6-Ball WLCSP Package

Description

The SX03P8 is a high efficiency step up regulator with ultra-low quiescent current of typical 800nA. SX03P8 operates with input voltage range from 0.9V to 5.5V and it is able to deliver up 880mA output current.

The SX03P8 provides both adjustable output voltages and fixed output voltage versions between 1.8V to 5.5V.

The **NERO™** control provides high efficiency down to 10uA load current and rapid load transient responses with switching frequency up to 700kHz.

Applications

- σ IoT
- σ Wearable
- σ Battery Powered Devices

Typical Application Circuits

