



Mobile Phone Power Management System

Features

- Handles all Mobile Phone Baseband Power Management
- 2.8V to 5.5V Input Range
- Charger Input up to 15V
- Seven LDOs Optimized for Specific Mobile Phone Subsystems
- High Operation Efficiency and Low Stand-by Current
- Li-Ion and NiMH Battery Charge function
- SIM Card Interface
- Three Open-Drain Output Switches to Control the LED, Alerter and Vibrator
- Thermal Overload Protection
- Under Voltage Lock-out Protection
- Over Voltage Protection
- Power-on Reset and Start-up Timer
- 48-Pin QFN Package

Applications

- GSM/GPRS/PCS Mobile Handsets
- CDMA/CDMA2000/TDMA Mobile Handsets
- Smart Phone
- Basic Phone and High-end Phone

General Description

The G5800 is a power management system chip optimized for Mobile phone handsets. It contains seven LDOs, one to power each of the critical Mobile phone sub-blocks. Sophisticated controls are available for power-up during battery charging, keypad interface, and RTC alarm. The G5800 is optimized for maximum battery life, featuring a ground current of only 108µA and 187µA when the phone is in standby and operation respectively.

The G5800 battery charger can be used with lithium ion (Li+) and nickel metal hydride (NiMH) batteries.

The G5800 contains three open-drain output switches for LED, alerter and vibrator control. The SIM interface provides the level shift between SIM card and micro-processor.

The G5800 is available in 48-pin QFN package. The operating temperature range is from -25°C to +85°C.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Pb free)
G5800Q1U	G5800	-25°C to +85°C	QFN7X7-48
G5800Q1R	G5800	-25°C to +85°C	QFN7X7-48

Note: Q1: QFN7X7-48

U: Tape & Reel

R: Tray

Pin Configuration

