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 microprocessor.

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

