Data Card Module Power Management System

Features

- **Handles all Mobile Phone Baseband Power Management**
- **3.0V to 5.5V Input Range**
- **2 LDOs Optimized for Specific Subsystems**
- **1.5MHz, 600mA DC/DC Buck Convertor**
- **1.5MHz, 1.0A DC/DC Buck Convertor**
- **High Operation Efficiency and Low Stand-by Current**
- **Thermal Overload Protection**
- **Power-on Reset**
- **16-Pin TQFN (3mm x 3mm) Package**
- **WLCSP4X4-16 Package (1.6mm x 1.6mm)**

General Description

The G2220 is a power management system chip optimized for data card module. It contains 2 LDOs and 2 buck converters to power each critical blocks of data card, and is optimized for maximum battery life, featuring a ground current of only 250μA when in standby mode operation. The G2220 could be power-on and power-off by enable pin.

The G2220 is available in 16-pin TQFN (3 mm x 3 mm) package or WLCSP 4X4-16 (1.6mm x 1.6mm) package. The operating temperature range is from -40°C to +85°C.

Applications

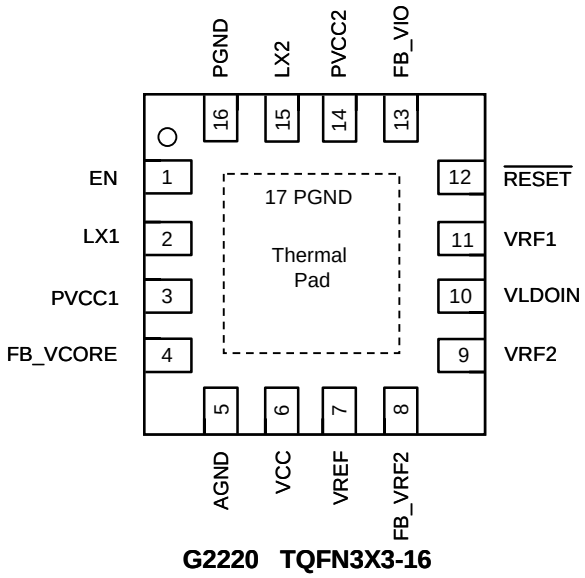
- **CDMA Data Card Module**
- **CDMA/GSM/GPRS Mobile Handsets**
- **Smart Phone**

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G2220R41U	2220	-40°C to +85°C	TQFN3X3-16
G2220BK1U	2220	-40°C to +85°C	WLCSP4X4-16

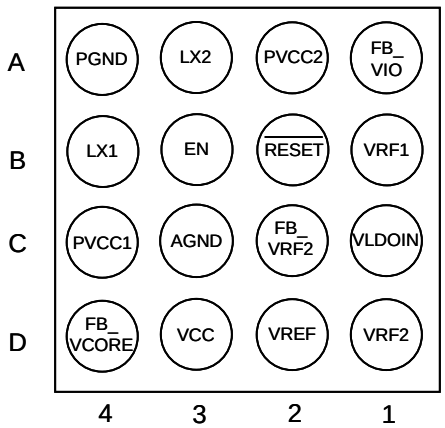
Note: R4: TQFN3X3-16; BK: WLCSP4X4-16
1: Bonding Code
U: Tape & Reel

Pin Configuration



G2220 TQFN3X3-16

G2220 16 Bump WLCSP



Bottom View
WLCSP4X4-16

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- **1.5MHz, 1.0A DC/DC Buck Convertor**
- **High Operation Efficiency and Low Stand-by Current**
- **Thermal Overload Protection**
- **Power-on Reset**
- **16-Pin TQFN (3mm x 3mm) Package**

General Description

The G2221 is a power management system chip optimized for data card module. It contains 2 LDOs and 2 buck converters to power each critical blocks of data card, and is optimized for maximum battery life, featuring a ground current of only 250μA when in standby mode operation. The G2221 could be power-on and power-off by enable pin.

The G2221 is available in 16-pin TQFN (3 mm x 3 mm) package. The operating temperature range is from -40°C to +85°C.

Applications

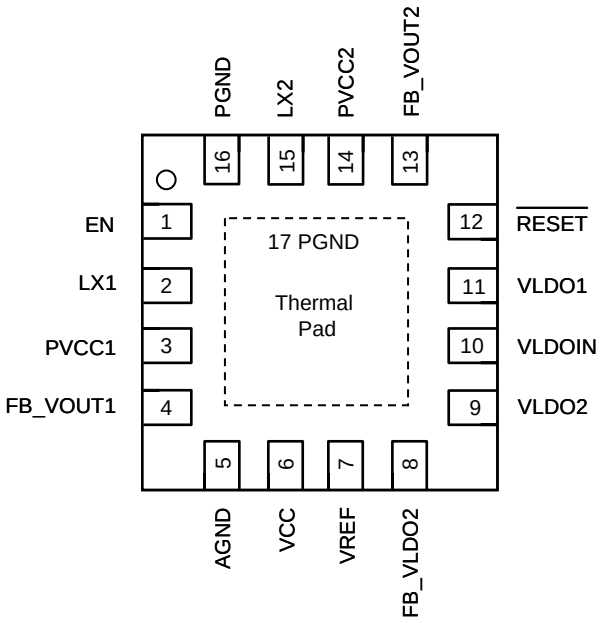
- **CDMA Data Card Module**
- **CDMA/GSM/GPRS Mobile Handsets**
- **Smart Phone**

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G2221R41U	2221	-40°C to +85°C	TQFN3X3-16

Note: R4: TQFN3X3-16
1: Bonding Code
U: Tape & Reel

Pin Configuration



G2221 TQFN3X3-16