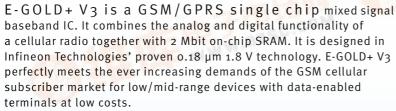
#### 查询PMB7850供应商

# PMB 7850

E-GOLD+ V3
GSM/GPRS Single Chip Baseband IC



Due to its flexible interfaces E-GOLD+ V3 can be set up easily to control a wide variety of RF architectures. In combination with the Infineon Technologies' SMARTi RF solution a system approach is achieved, which results in an extremely compact implementation, very low power consumption and cost effective system performance.

# Applications

■ GSM/GPRS/HSCSD Mobile Phones and Data Modems

#### Key Features

- C166S MCU core, 52 MHz
- OakDSPCore<sup>®</sup>, 78 MHz
- 2 Mbit on-chip SRAM
- GPRS cipher units GEA1, GEA2
- I<sup>2</sup>C bus interface (eg. PMB 6810)
- I<sup>2</sup>S PCM digital audio Interface
- Multimedia Card interface
- 2<sup>nd</sup> SIM card interface
- Ringer support for PWM output to earpiece
- 2 IrDA compatible UARTs
- Logic port signal arranger
- General Purpose IOs
- Advanced dynamic power management
- External memory interface to 1.8 V and 3 V devices
- Page Mode Flash interface
- JTAG IEEE 1149.1 Boundary scan and debug interface
- OCDS level 1 debug support



# Technology

- Based on proven Infineon mixed signal o.18 µm technology
- 1.8 V 3.3 V digital IOs
- 1.8 V internal operating voltage for digital parts
- 2.5 V internal operating voltage for analog parts
- P-LFBGA-208 package,
- 12 x 12 mm, 0.65 mm ball pitch

#### Firmware

- FR, HR, EFR, AMR
- GPRS class 12, CS 1-4
- HSCSD class 10
- Echo cancellation
- Noise reduction
- Voice memo support
- MP3 decoding support
- Polyphonic Ringer support
- Speech recognition support optional

# Documentation/Development and Support Tools

- Product Overview
- Specification
- Application Note
- Evaluation Board
- CD-ROM Support Package

# Software

- Complete software solution ranging from layer 1 up to MMI for GSM phase 2+ incl. HSCSD, GPRS and many additional features offered by Comneon
- Java

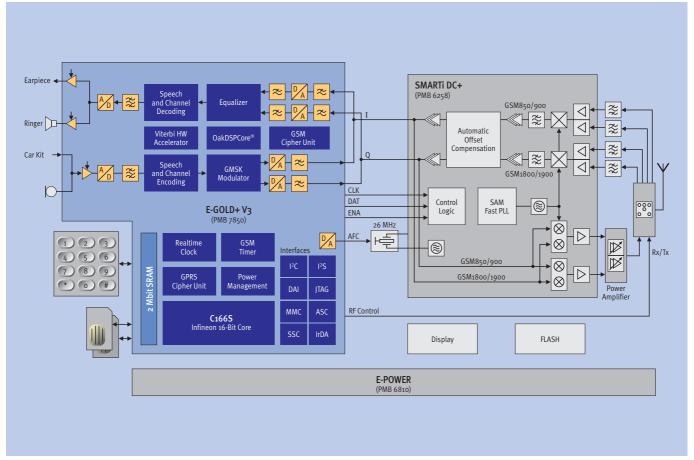
www.infineon.com/mobilesolutions

Mobile Solutions





# Application Example GSM/GPRS Terminal



# Heading to the Future

Based on GPRS and HSCSD new exciting applications will create new opportunities in mobile communications. Infineon Technologies' enables the customers to benefit from such a tremendous market opportunity. E-GOLD+ V3 provides both, analog functions, like analog baseband filters, ADCs, DACs, and digital signal processing power.

To provide the MCU/DSP capabilities, E-GOLD+ V3 makes use of a combination of Infineon's well proven and established C166 architecture and an OakDSPCore®.

It's E-GOLD+ V3 solution for the highly integrated baseband as a system-on-chip is a result of the corporation's successful initiative from a mere silicon vendor to a system solution provider.

With its system level know-how in the area of GSM, GPRS, EDGE, and UMTS Infineon Technologies leads the way in providing complete system solutions for wireless communication offering a complete semiconductor product range to cover all low- to high-end terminals.

This includes Baseband ICs, RF products, Power Management ICs, Power Amplifier, Bluetooth<sup>TM</sup> modules, GPS, and many more.

Infineon Technologies system solutions are jointly developed with its system integration house, Danish Wireless Design A/S in Denmark and its wireless software development house Comneon, with its headquarter in Nuremberg, Germany.

Note: OakDSPCore® is a registered trademark of ParthusCeva, Inc.

How to reach us: http://www.infineon.com Published by

Published by Infineon Technologies AG, St.-Martin-Strasse 53, D-81669 München

© Infineon Technologies AG 2004. All Rights Reserved.

Template: pb\_tmplt.fm/4/2004-01-01

### Attention please!

The information herein is given to describe certain components and shall not be considered as a guarantee of characteristics.

Terms of delivery and rights to technical change reserved.

We hereby disclaim any and all warranties, including but not limited to warranties of non-infringement, regarding circuits, descriptions and charts stated herein.

#### Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office.

#### Narnings

Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office.

Infineon Technologies Components may only be used in lifesupport devices or systems with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.