E-GOLDradio

GSM/GPRS CMOS Single Chip Solution

THE E-GOLDradio is the latest member of Infineon's successful E-GOLD family. It integrates the complete functionality of two CMOS chips already in high-volume production: Infineon's baseband chip, E-GOLDlite (PMB 7860), and its quadband RF transceiver, SMARTi SD2 (PMB 6271).

E-GOLDradio

- Monolithic Baseband-Radio (BBR) for GSM/GPRS entry phones
- RF-transceiver, mixed signal and baseband on-chip
- Built up on mature concepts of SMARTi SD2 and E-GOLDlite
- Optimized for lowest system costs with 4 to 6 layer PCB and low via count
- Highest integration in 9x9 mm² LF²BGA-233 Flip Chip package
- Up to GPRS multi-slot class 12

Main Features

- RF Subsystem
  - Quadband direct conversion receiver with lowest power consumption
  - Fully digital RF-Synthesizer including SD-Transmitter
- Baseband Subsystem
  - 104 MHz TEAKlite DSP Core
  - Flexible architecture with various interfaces, e.g. Keyboard, SSC, I2S, I2C, ASC with IrDA, ASC for Tracing
  - SAIC
  - Cipher Units A51/2/3, GEA-1/2/3
  - Device ID for SIM-Lock
  - Feature rich FW-Mask with MP3-Support, Hi-Fi Polyringer, TTY
  - Speech Codecs: HR, FR, EFR, AMR

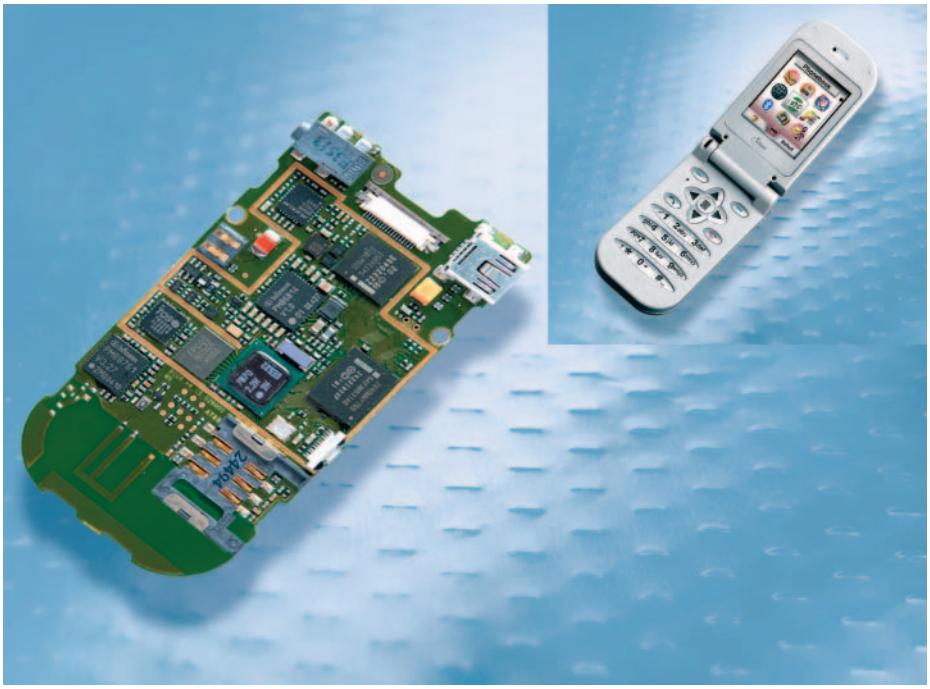
www.infineon.com/egoldradio

Communications

Infineon technologies

Never stop thinking.

BP3 – Entry Phone Platform
Most integrated GSM/GPRS Entry Phone Solution



- Fully integrated and scalable GPRS solution
- GSM/GPRS Release 99
- Java MIDP2.0
- WAP, MMS, E-mail, SyncML
- Bluetooth
- FM Radio
- Memory Card
- MP3 playback

ULC – Ultra Low Cost Platform
Cost optimized solution for 20 USD handsets

- GSM Dual Band
- Enables BOM < 20 USD
- Component Count < 100
- 4 Layer PCB, single-side mounting
- Supports Li-Ion batteries and Ni-MH AAA-cells
- Polyphonic Ring tones

How to reach us:
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