BP2

Entry & Basic Platform

Infineon's cost-optimised
GSM/GPRS platform BP2 is one of the
highest integrated and most complete
system solutions available today.
It allows customers to develop and
market mobile phones in record time.

Included are all components needed to
build a mobile phone: baseband, RF,
power management and cellular RAM ICs,
complemented by state of the art
protocol stack, the APOXI^{TM} application
framework and a fully customizable
Man-Machine-Interface (MMI)

Infineon's development
environment offers
development boards,
a comprehensive tool
chain and a SDK for the
application framework.
Customers will also benefit
from Infineon's extensive
experience with chipsets
and complete customized
solutions in the
mobile market.

Cost
Leading low-cost GSM/GPRS platform
for basic & entry phones

BP2
Success Factors

Customization
Hardware independent application
and MMI customization

Size
Smallest System PCB size
for highest design flexibility

The BP2 fulfills all requirements to meet the handset success factors in the entry and
basic phone segment: lowest-cost electronic bill-of-material, smallest PCB size area
and a hardware independent application and MMI development platform.
Therefore handset manufacturers can completely concentrate on handset
differentiation factors like design, product variants, MMI styles etc.

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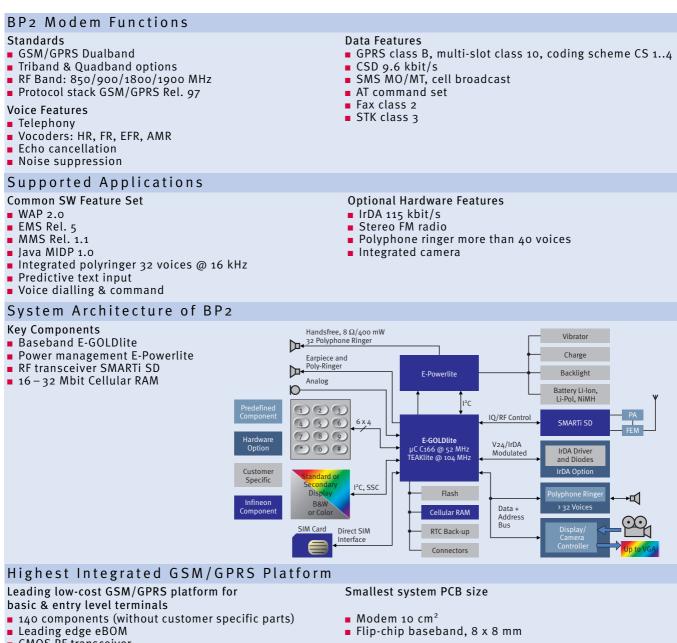
Mobile Solutions

Infineon
technologies

Never stop thinking.

BP2 Modem Functions

Standards
- GSM/GPRS Dualband
- Triband & Quadband options
- RF Band: 850/900/1800/1900 MHz
- Protocol stack GSM/GPRS Rel. 97

Voice Features
- Telephony
- Vocoders: HR, FR, EFR, AMR
- Echo cancellation
- Noise suppression

Data Features
- GPRS class B, multi-slot class 10, coding scheme CS 1..4
- CSD 9.6 kbit/s
- SMS MO/MT, cell broadcast
- AT command set
- Fax class 2
- STK class 3

Supported Applications

Common SW Feature Set
- WAP 2.0
- EMS Rel. 5
- MMS Rel. 1.1
- Java MIDP 1.0
- Integrated polyringer 32 voices @ 16 kHz
- Predictive text input
- Voice dialling & command

Optional Hardware Features
- IrDA 115 kbit/s
- Stereo FM radio
- Polyphone ringer more than 40 voices
- Integrated camera

System Architecture of BP2

Key Components
- Baseband E-GOLDlite
- Power management E-Powerlite
- RF transceiver SMARTi SD
- 16 – 32 Mbit Cellular RAM

Highest Integrated GSM/GPRS Platform

Leading low-cost GSM/GPRS platform for basic & entry level terminals
- 140 components (without customer specific parts)
- Leading edge eBOM
- CMOS RF transceiver
- Comprehensive feature set built-in

Smallest system PCB size
- Modem 10 cm²
- Flip-chip baseband, 8 x 8 mm

APOXI™ Application Framework

The APOXI™ Application Framework enables and includes
- A platform independent, easily reusable environment for rapid development and cost efficient solutions
- A powerful reference MMI with a broad range of pre-integrated reference applications
- An open API to enable unlimited 3rd party applications
- APIs for SIM, NVRAM, Flash, Display, Audio, Video, Real Time Operating Systems and the TCP/UDP family
- An object-oriented framework, ideal for developing customized "Look & Feel" MMIs & applications
- Support for Java, camera, and a broad range of advanced multimedia codecs
- An innovative roadmap of advanced applications provided by a leading developer network

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