Infineon

3GSM

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Wireless Highlights

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Infineon technologies

Never stop thinking.

Disclaimer

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Infineon - Market-oriented business structure

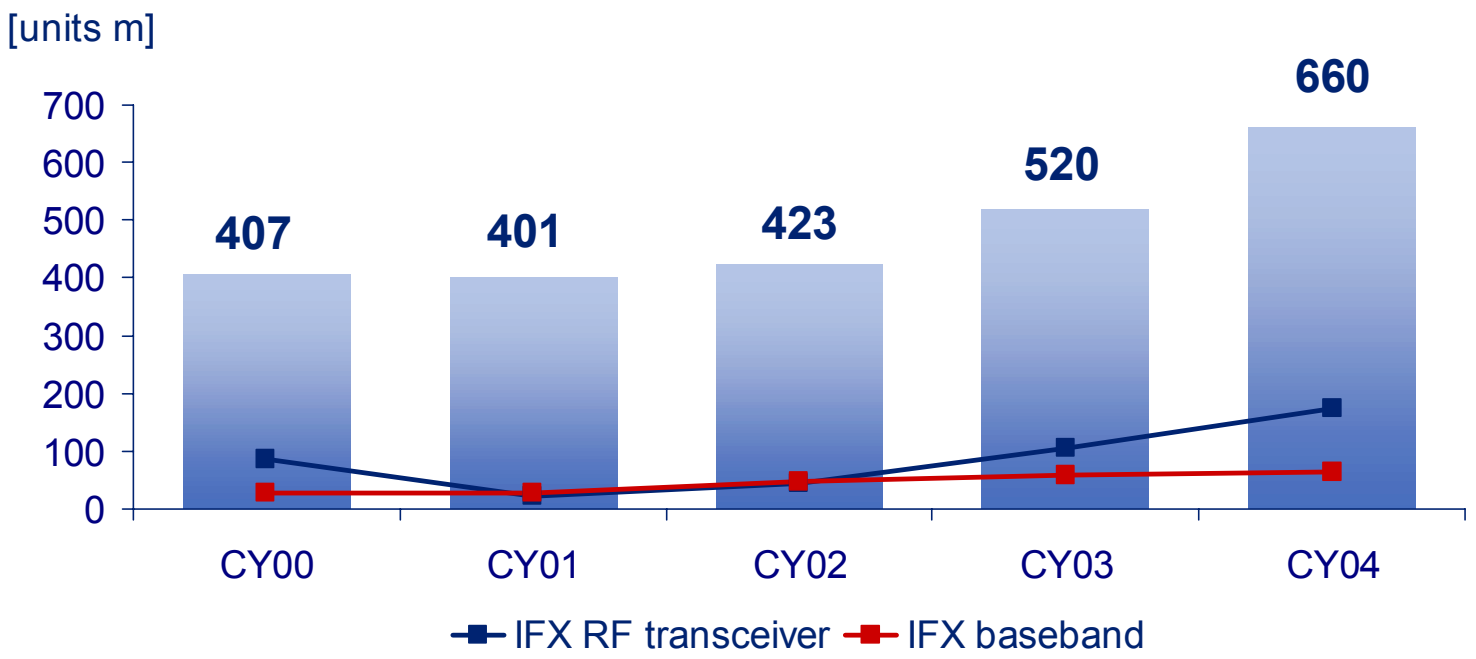
Business groups		Applications
COM Commu-nication		Wireless: Mobile phones, local/ personal area wireless, GPS, cellular base stations Wireline: Broadband and carrier access, high speed line cards for optical networks, CPE
AIM Automotive, Industrial & Multimarket		Car electronics (powertrain, comfort management, safety management, infotainment), power conversion (power supplies, drives), security (entertainment, payment, identification, platform security)
MP Memory Products		PC and notebooks, PC-upgrades, workstations, infrastructure (servers and networking), PDA's, smart phones, computer peripherals, removable-solid-state-memories (Flash-cards)

Customers

Never stop thinking

Continued to significantly gain market share in RF

Total mobile phone market CY00 to CY04

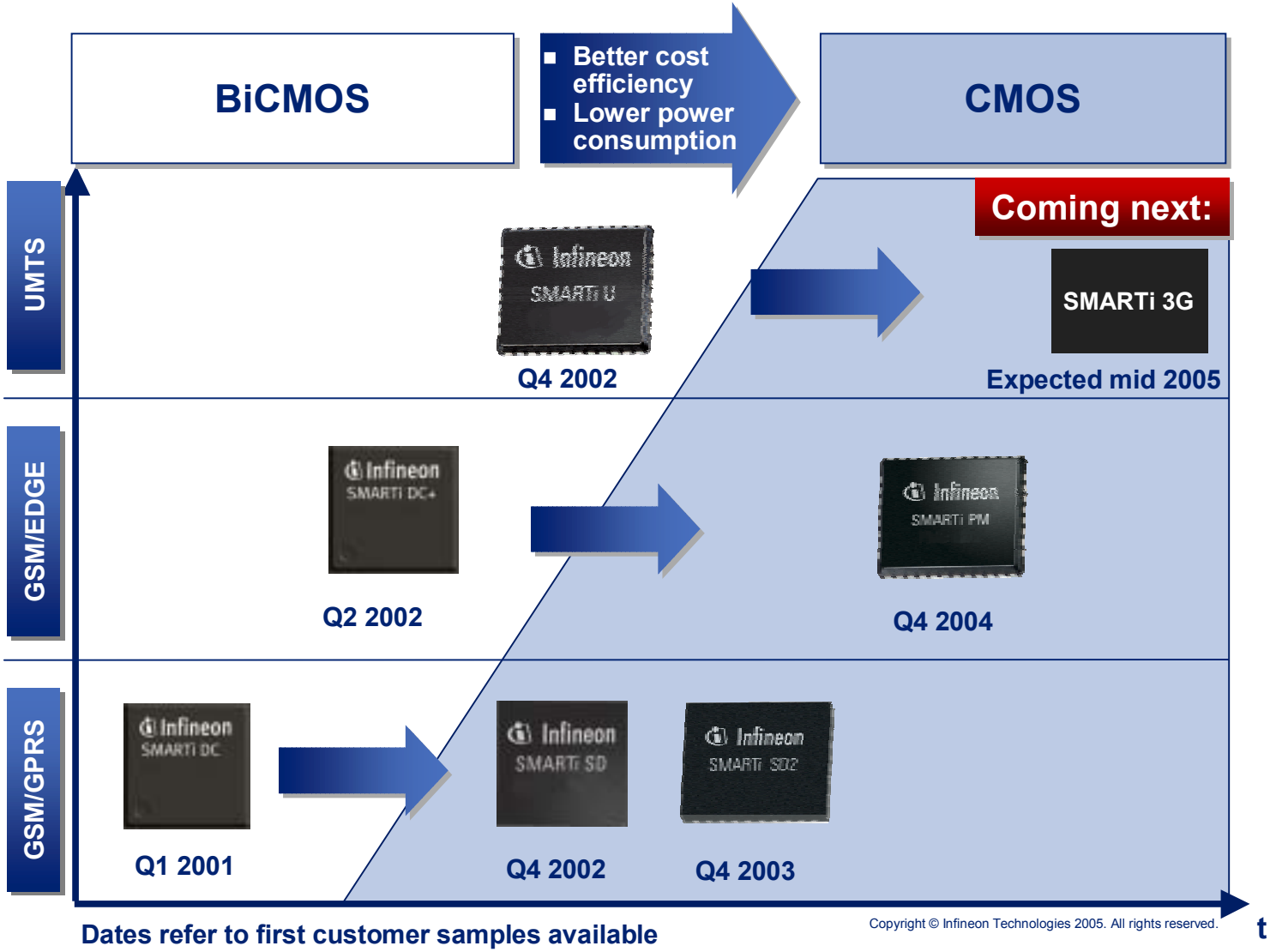


Infineon's market share:

	CY00	CY01	CY02	CY03	CY04
RF	21%	5%	10%	21%	26%
BB	7%	7%	11%	11%	10%

Source: Mobile phones: Gartner, January 2005
RF transceiver and baseband: Infineon, January 2005

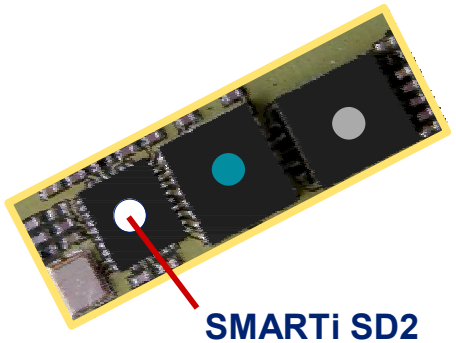
Transition to CMOS of complete RF transceiver portfolio: Paving the way for GSM/UMTS single-chip transceivers



Dates refer to first customer samples available

Continue to execute on RF CMOS single-chip roadmap: SMARTi SD2 in production, SMARTi PM sampling

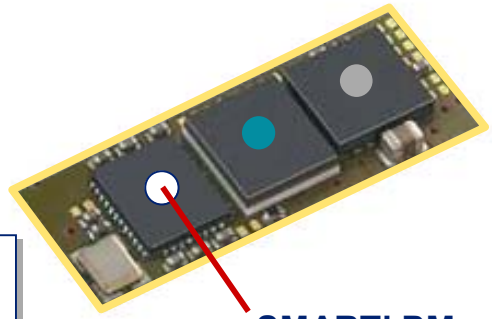
SMARTi SD2



- 2nd generation GSM/GPRS CMOS quad-band transceiver
- In volume production
- Low power 0.13µm CMOS
- Based on proven SMARTi SD architecture using a digital sigma-delta modulator
- RF engine component count: 20 vs. 70 for 1st generation

RF engine
RF CMOS transceiver
RF frontend
Power amplifier

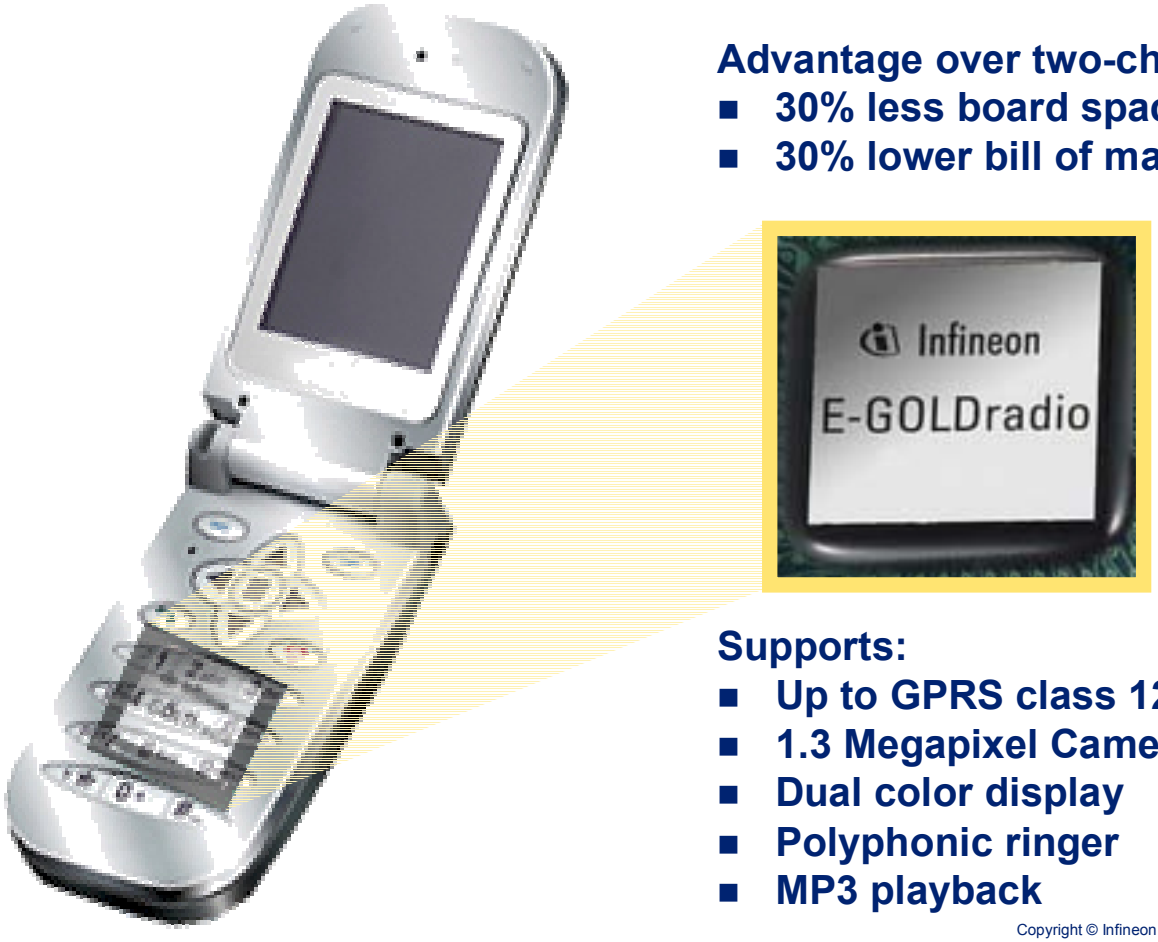
SMARTi PM



- GSM/EDGE CMOS quad-band transceiver
- Sampling
- Low power 0.13µm CMOS
- High reuse from SMARTi SD2
- Digital polar modulator
- < 20 components for RF engine required
- Works with standard linear PA

Successful integration of RF CMOS into the baseband: Sampling RF / baseband SoC for GSM/GPRS

Infineon's single-chip demo-phone at 3GSM '05

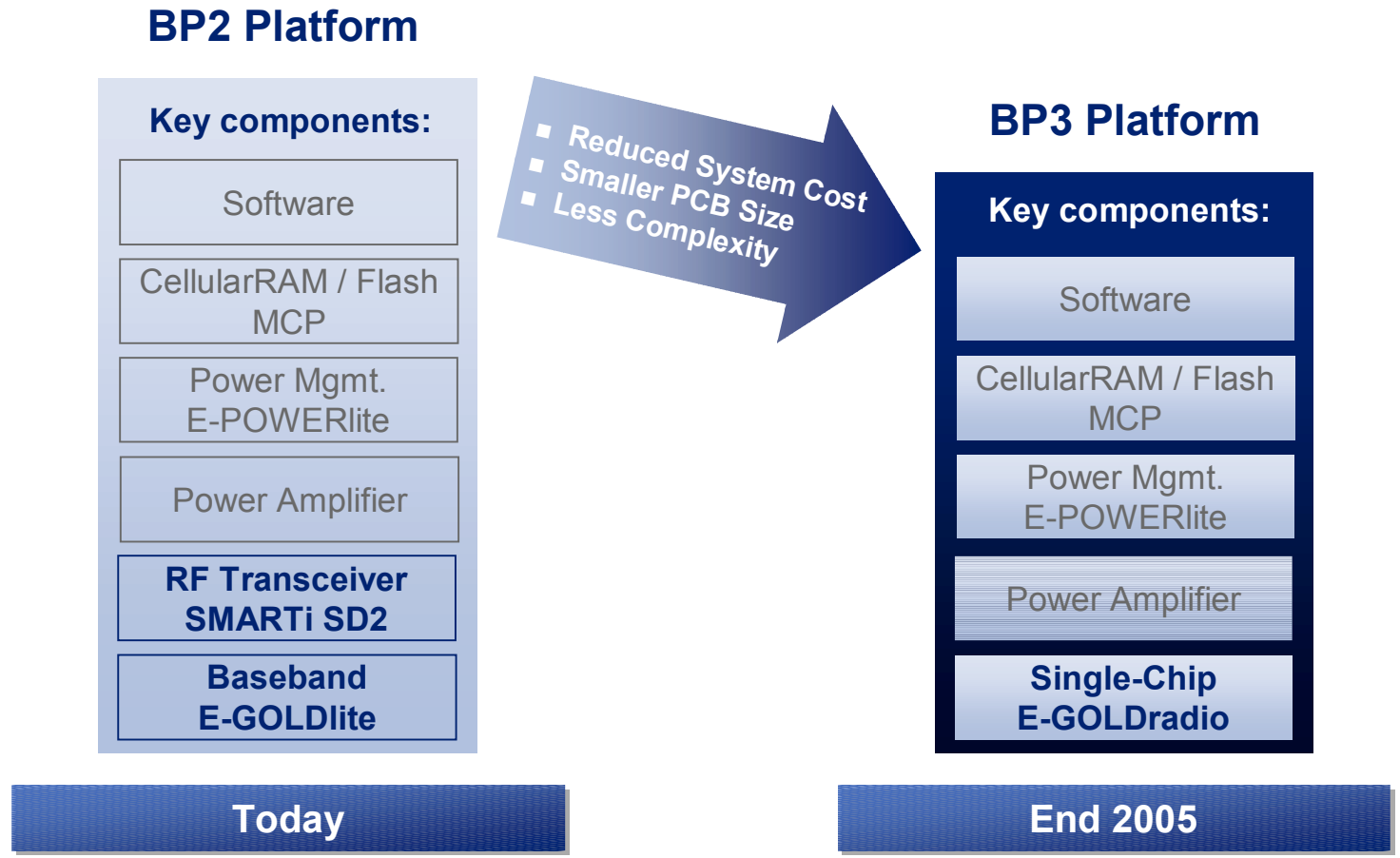


Integrates:
- RF transceiver SMARTi SD2
- Baseband E-GOLDlite

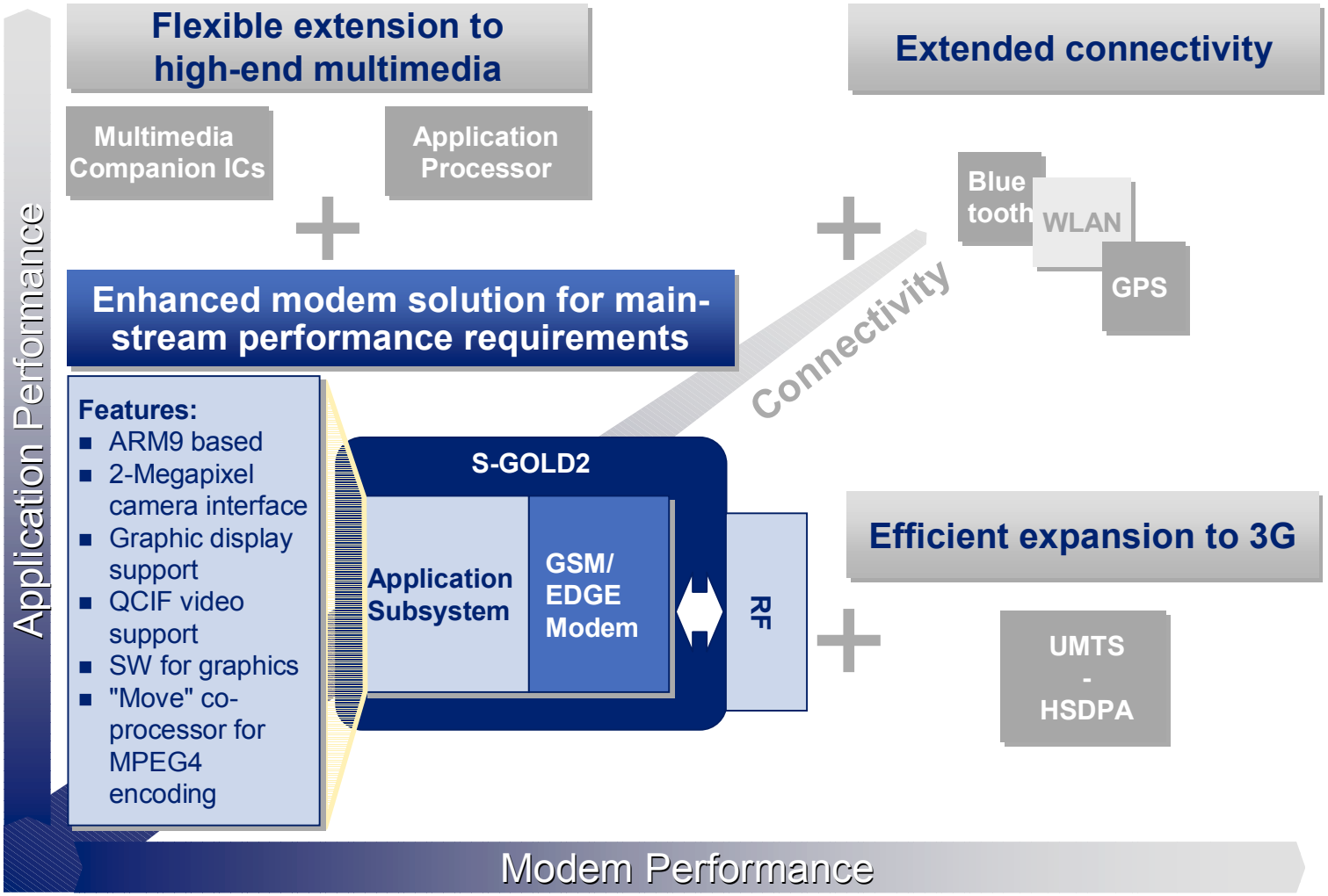
Advantage over two-chip solution:
- 30% less board space
- 30% lower bill of material

Supports:
- Up to GPRS class 12
- 1.3 Megapixel Camera
- Dual color display
- Polyphonic ringer
- MP3 playback

E-GOLDradio enables the world's most integrated GSM/GPRS entry phone platform



Scalable multimedia baseband architecture to address increasing performance requirements



Multimode UMTS/EDGE protocol stack available since 2004

Based on proven stack technology

- Based on Comneon's extensively tested GSM/GPRS/EDGE protocol software
- Allows for highly integrated, cost-effective multi-mode protocol stack

Comprehensive solution

- Complete Type II multi-mode UMTS/EDGE software
- Fully 3GPP Release 99 compliant
- Clear roadmap directly to Release 5 and HSDPA

Designed for scalability and flexibility

- Common development framework/system architecture across multi-mode solution
- Optionally available as an easily configurable single-mode 3G-operation

"Huawei takes the lead as China's first producer of 3G handsets"*

Based on Infineon's:

- MP1-U UMTS modem platform
- Protocol Stack
- APOXI

Huawei U326 (*):

- UMTS single-mode cellphone
- 1.8 inch 65K true colour screen
- Excellent cost performance
- Weight: only 92 grams

*Source: www.huawei.com, Nov. 15, 2004

Introducing the world's first Linux OS based UMTS/EDGE dual-mode smartphone reference design

Overview

- Linux-based dual processor UMTS/EDGE reference design
- Supporting high-end features required for a UMTS phone in 2006
- Focusing on video/audio phone market
- Based on Infineon MP-U UMTS/EDGE modem platform and dual-mode protocol stack as well as a 3rd party application processor

Main features

- UMTS/EDGE dual-mode Type II
- Linux-based operating system
- Video call and video streaming
- Video recording and playback
- High-performance multimedia applications
- Up to 4 Megapixel camera
- 3D audio
- 3D gaming

Introducing GSM/EDGE multimedia platform featuring our latest multimedia baseband and RF CMOS transceiver

EDGE platform based demo-phone at 3GSM '05

Overview

- Result of further development of MP1G platform
- Addresses increased market requirements for multimedia applications and for EDGE
- Based on Infineon's GSM/EDGE:
  - Multimedia baseband S-GOLD2,
  - RF CMOS transceiver SMARTi PM,
  - Protocol stack and APOXI

Main features

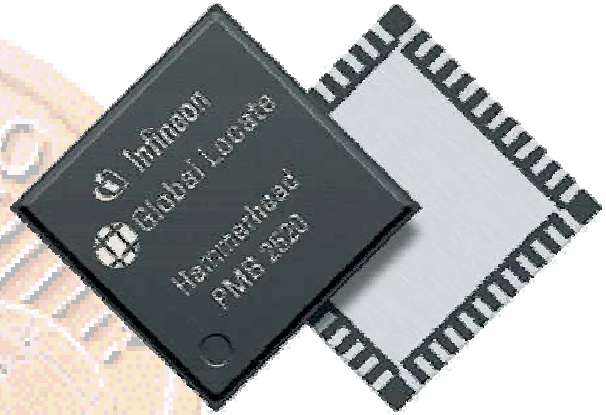
- GSM/GPRS/EDGE quad-band modem
- Video streaming
- Video recording and playback
- Still picture camera support
- Support of high-definition displays
- Audio playback
- Optional enhancement to UMTS

Sampling highly innovative Bluetooth and A-GPS single-chip solutions for mobile phones

BlueMoon UniCellular

- Bluetooth single-chip solution
- Supports Bluetooth 2.0 and new EDR functionality
- 0.13µm CMOS technology
- Low power consumption
- Support for class 1 (100m range) and WLAN-coexistence
- Offered with software stack

Hammerhead



- World's first A-GPS single-chip solution, integrating baseband and RF GPS functionality
- Developed in cooperation with Global Locate
- Based on Infineon's 0.13µm RF CMOS technology

Leverage leading position in digital terrestrial TV into mobile TV

- Infineon is market leader in the fast growing digital terrestrial tuner market (DVB-T standard)
- Our tuner IC products are used in most digital terrestrial standard TV sets, Set-Top-Boxes and world's first PCMCIA card for TV reception
- We intend to leverage this strong position into a complete DVB-H/T-DMB front-end solution
- Infineon to participate in the world's first roll-out of mobile TV in South Korea in 2005 with a tuner IC in a DMB-receiving mobile phone from LG Electronics

World's first terrestrial DMB-receiving mobile phone from LG Electronics*

T-DMB (Terrestrial-Digital Mobile Broadcasting, Mobile TV standard in Korea)

* Source: www.lge.com, Nov. 15, 2004

Mobile solutions: Significant progress in all four mobile core competencies