Product Brief Little on Heart Regulary Regulary

BlueMoon Universal

Next Generation Bluetooth Chip Family

BlueMoon® Universal - the future generation.

The next step in Infineon's Bluetooth[®] wireless technology is about to become reality. A new scale in integration, miniaturization, and cost reduction will be the basis for the Bluetooth wireless connectivity to get into everybody's daily life.

The BlueMoon UniCellular 1 (PMB 8752) is perfectly suited for cellular phones offering high RF performance and lowest power consumption at unbeatable cost efficiency.

On top of that BlueMoon UniCellular 2 (PMB 8753) provides medium data rate capabilities up to 3 Mbit/s according to the upcoming Bluetooth Standard 2.0.

Applications

- Headset and Handsfree
- Dial-up networking
- Data transfer
- Synchronization
- Cordless telephony
- Advanced audio

Key Benefits

- True single chip
- Low power consumption
- Smallest size, highest integration, lowest BoM
- High data throughput
- Excellent RF performance

Features

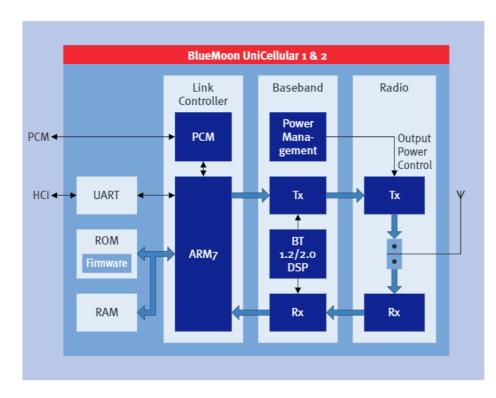
- ARM7TDMI-STM ARM[®] CPU
- 0.13 µm standard CMOS technology
- Bluetooth 1.2 Support
 - Adaptive frequency hopping
 - Extended SCO
 - Fast connection setup
- Bluetooth 2.0 support (PMB 8753 only)
 - Medium data rate up to 3 Mbit/s
- Firmware up to HCI in integrated ROM
- Lowest power consumption
 - < 40 mA peak in active mode
 - < 20 μA in low power mode
- High RF sensitivity (-90 dBm @ 0.1% BER)
- Dynamic control of output power
- Package options (lead-free/halogen-free)
 - 7 x 7 mm P-VQFN-48
 - 5 x 5 mm PG-WFLGA-56

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www.infineon.com/bluetooth

Wireless Communication

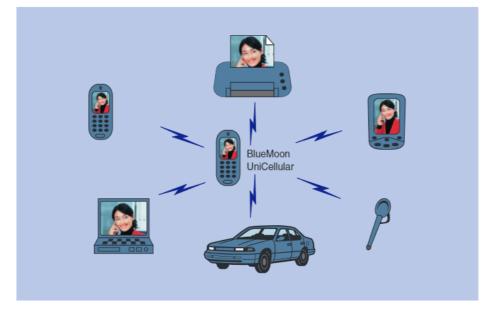




Block Diagram

- ARM7
- Firmware in integrated ROM
- 2- or 4- wire UART-HCI (H4/H5)
- PCM audio (I²S mode; A-law, µ-law)
- Bluetooth 1.2 (e.g. AFH)
- Bluetooth 2.0 (PMB 8753 only)

Туре	Sales Code	Package
BlueMoon UniCellular 1	PMB 8752	P-VQFN-48, PG-WFLGA-56
BlueMoon UniCellular 2	PMB 8753	P-VOFN-48, PG-WFLGA-56



Applications for the Personal Area Network (PAN)

- Mobile phone (voice & data)
- PC/PDA (data, sync, print)
- PC accessories (HID, print, imaging)
- Headset (advanced audio)

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