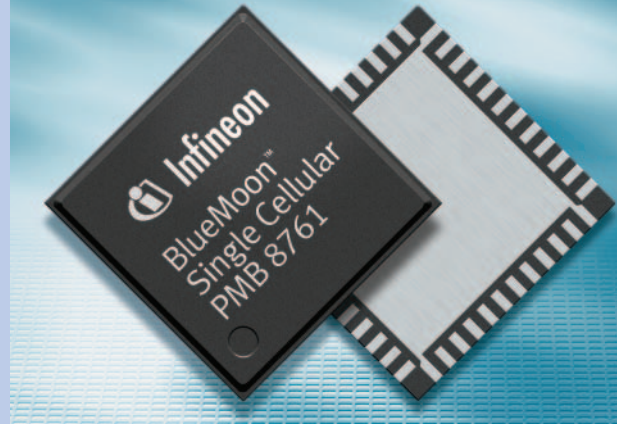


BlueMoon Single Cellular

PMB 8761



BlueMoon® Single Cellular is the optimized Bluetooth® wireless solution for cost-sensitive cellular phone applications. The advanced architecture out of the BlueMoon Single family combines minimal power consumption with excellent RF performance. The high integration level and a cost efficient VQFN package result in an extremely low board area of less than 80 mm² and industry leading cost of ownership.

Being compliant to Bluetooth Standard 1.2 BlueMoon Single Cellular is a reliable solution for the mobile future.

Applications

- Headset and Handsfree
- Dial-up networking
- Data transfer (e.g. object push)
- Synchronization
- Cordless telephony
- Advanced audio

Key Benefits

- True single chip
- Low power consumption
- Smallest size, highest integration, lowest BoM

Key Features

- Bluetooth 1.2 Support
 - Extended SCO
 - Adaptive frequency hopping
 - Fast connection setup
- Integrated ROM for lowest cost
- Programmable power-down mode
- Clock input for joint use with GSM/CDMA/3G clocks (11.5 to 46 MHz)
- Full automatic tuning and trimming (no manual or SW tuning)
- High RF sensitivity (-85 dBm @ 0.1% BER)
- On-chip 2.4 GHz RF driver amplifier with max. +7 dBm output power
- Automatic control of output power for reduced power consumption
- Compatible to available GSM/GPRS/CDMA base band solutions
- P-VQFN-48 package (lead-free/halogen-free)

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www.infineon.com/bluetooth

Wireless Communication



Never stop thinking.

- UART (2, 4 wired)

- PCM (A-law, μ -law)
- External oscillator
- Control lines for Class 1 PA
- Wake up line
- External 32 kHz low power oscillator
- Integrated RF switch

Due to its small package size a

because of few external components, BlueMoon Single Cellular is the perfect IC solution for Bluetooth enabled cell phones. In this example, the BlueMoon Single Cellular is built into a GSM mobile phone design based on Infineon's cellular ICs. This solution perfectly meets cost and size requirements of the final product.

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Information

For further information, please contact:

Due to tech

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