Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Infineon

eBMU PMB8753/2 SPP-AT

BlueMoon® Universal Family
Extended to Embedded Data Transfer Applications

THE SINGLE CHIP SYSTEM IC, eBMU, is a fully integrated Bluetooth® device with integrated stack for data transfer applications. Bluetooth stack layers up to RFCOMM are integrated in ROM. Additional profiles, applications or command interfaces are loaded from external memory.

The high performing eBMU offers outstanding range and efficient utilization of low power modes. It is compliant to BT 2.0 plus Enhanced Data Rate and is equipped with a powerful ARM7 processor with capacity for advanced applications.

The low-cost system requires only a few external components. The small BGA package offers a small solution footprint. Reference design and design kit are available for quick and easy design-in.

The optimized system partitioning with extensive patching capabilities of ROM code together with applications and complimentary profiles loaded from external memory provides a highly flexible and upgradeable solution.

Complete system SW, this product supports the Serial Port Profile (SPP) with an extended AT command-set, supporting both Device A and Device B role configuration. HID profile and other applications can be offered as Customized Software on request.

Applications
- Consumer, Automotive & Industrial Applications
- Data transfer & synchronization
- Remote control
- Sensors
- Gaming control

Main Features

- Single-chip Bluetooth system device
- Low BOM no external Flash memory
- Ready Bluetooth Qualified Product v2.0 + EDR
  - Enhanced data rate
  - Adaptive frequency hopping
  - Fast connection setup
- BT stack up to RFCOMM in ROM
- SPP Device A and B support
- Low Power Mode
- SW application upgrade over UART
- Security mode
- GPIO support for up to 8 GPIO
- Bluetooth Power Class 2
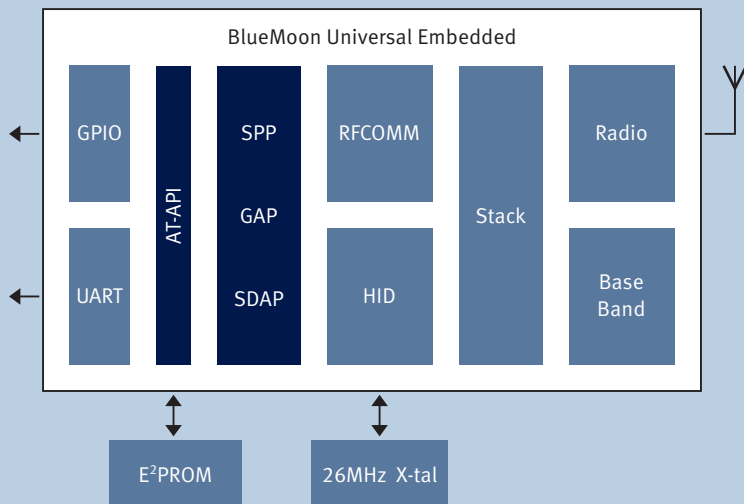- High RF sensitivity (-88dBm @ 0.01% BER)
- RoHS compliant

Key Benefits
- Complete system solution including BT stack plus SPP, GAP, SDAP profile and AT command set
- Minimal host application
- Patching capability offering large flexibility on
  - Enhancement of existing functionalities
  - Bug fixing
- Standard applications offering accelerated time to market
- High performance processor system enabling replacement of external host solution with a completely embedded system for high volume applications
- BT qualified reference design
- Support for crystal or external clock
- Specific Production mode

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BlueMoon® Universal Family Extended to Embedded Data Transfer Applications

Block Diagram

BlueMoon Universal Embedded

- GPIO
- AT-API
- SPP
- GAP
- SDAP
- RFCOMM
- HID
- Stack
- Radio
- Base Band
- UART

E²PROM

26MHz X-tal

BlueMoon Universal Embedded

- 0.13µm CMOS technology
- Bluetooth 2.0 + EDR
- Integrated Stack
- Integrated RFCOMM protocol
- AT command interface available
- Standard applications available

Interfaces

- High speed UART – 3.25Mbps
- GPIOs with wake-up capability
- Single voltage power supply
- Support direct connect to 2xAA
- 50Ω balanced Antenna interface
- 26MHz crystal or 26MHz reference frequency
- Optional 32kHz Low Power Clock

Development Kit

The Development Kit is a complete platform for development and evaluation.

- SW for standard applications
- AT command Interface tool
- HCI command Interface tool
- 2 HW boards
- UART interface
- USB to UART converter
- Reference design
- Documentation

Product Summary

Type	Sales Code	Temperature Range	Package
eBMU	PMB8753/2 V1.01	-40C to +70C	PG-WFSGA-65
	PMB8753/2 V1.11	-40C to +85C	

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Information For further information on technology, delivery terms and conditions and prices, please contact the nearest Infineon Technologies Office (www.infineon.com).

Warnings Due to technical requirements, components may contain dangerous substances. For information on the types in question, please contact the nearest Infineon Technologies Office. Infineon Technologies components may be used in life-support devices or systems only with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.