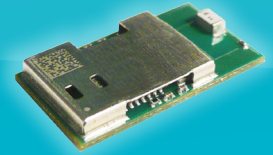


阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .



New PAN1322 Series Place and Play *Bluetooth*® Module



All-In-One, Place and Play *Bluetooth* Module

Introducing **Panasonic's** next generation, smartphone compatible, place and play *Bluetooth* module, the **PAN1322 Series**. This module features an embedded microcontroller, *Bluetooth* 2.1 + EDR stack, serial port profile (SPP), AT command set API and antenna. This cost engineered solution is based on a single chip solution that integrates an ARM7TDMI processor with a *Bluetooth* controller. The BT 2.1 + EDR stack provides secure, reliable, high speed data connections using Secure Simple Pairing (SSP) eliminating manual password creation. Embedded serial port profile (SPP) frees application resources while the AT command set API creates a simple firmware interface using modem commands. An onboard antenna does away with 2.4GHz RF circuit complexity.

Created with the design engineer in mind, product design cycles are greatly reduced using **Panasonic's** reference design and design review services. PCB layouts are simplified using available Gerber files and minimized with Panasonic's tiny footprint technology. The module is and is just 15.6mm x 8.7mm x 2.8mm and fully shielded to improve immunity. GPIO is exposed using AT commands. All Panasonic *Bluetooth* RF modules carry FCC, IC, CE *Bluetooth* certifications.

The **PAN1322 Series** recognizes Apple's authentication coprocessor and supports *Bluetooth* Serial Port Profile (SPP) data communication¹ with Apple's iPhone and iPad^{®*}. Connectivity also includes Android, smart phones and all *Bluetooth* enabled devices².

Panasonic remains committed to customers as a module manufacturer by extending product life using legacy footprints and firmware interfaces to make the **PAN1322 Series** fully compatible with the module it replaces, the **PAN1321 Series**.

Hardware and firmware prototyping and testing are accelerated using the **EVAL_PAN1322** development kit and SPP Toolbox development environment.

1. Apple authentication coprocessor and MFI certification is required.

2. Connectivity requires that devices support *Bluetooth* Serial Port Profile

*Apple iPad and iPhone are trademarks of Apple Inc

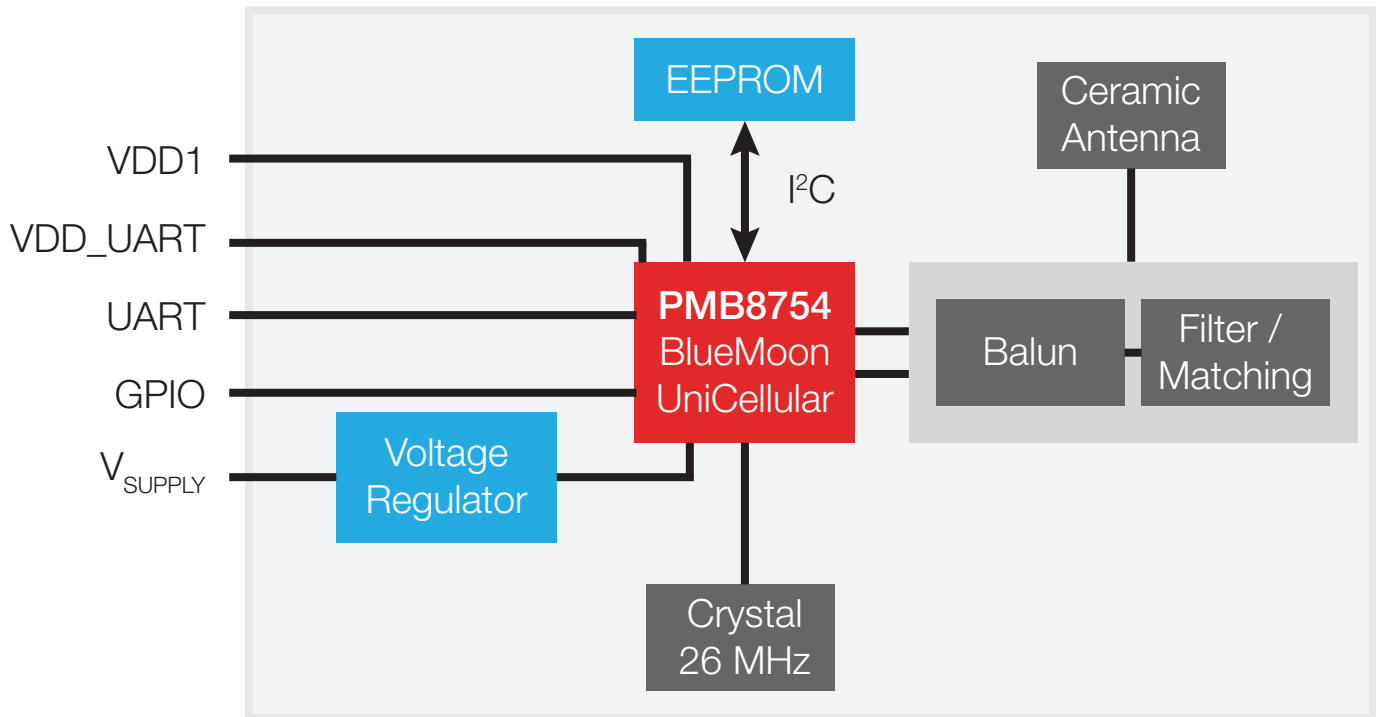
Features

- *Bluetooth* Version 2.1 + EDR
- SPP Device A and B, RFCOMM Profiles
- Industrial Temperature Range, -40 to +85°C
- No External Components Needed
- Onboard Voltage Regulator, V_{IN} = 2.7 to 3.6 V
- Integrated ARM7RDMI 32-Bit Processor w/Patchable EEPROM
- 3.25 MBaud UART
- GPIO w/Interrupt and Wake-Up Capabilities

Applications

- iOS and Android Devices
- Wireless Sensors
- Cable Replacement
- Industrial
- Medical
- Automotive

Block Diagram (PAN1322-SPP)



Technical Characteristics

Parameter	Value	Condition
Receiver Sensitivity	-86 dBm typ.	Ideal Signal
Output Power	+3 dBm typ.	@ 50 Ohm Antenna Pin
Power Supply	2.7 to 3.5 V	Single Voltage Operation
Ultra Low Power Mode	80 μ A	T = 2.5°C
ACL (Transmit 3-DH1)	40 mA	Enhanced Data Rate, 531.2kb/s
ACL (Receive 3-DH1)	37 mA	Enhanced Data Rate, 531.2kb/s
Operating Temperature	-40 to +85°C	

Ordering Information

Part Number	Description
ENW-89841A3KF	PAN1322 Bluetooth Module, SPP, Integrated Antenna
EVAL_PAN1322	PAN1322 Evaluation Kit

Additional Information

For detailed specification information on the **PAN1322** Place and Play Bluetooth Module, visit our website at:

<http://www.panasonic.com/rfmodules/>