

Bluetooth-Module PAN1322

Embedded SPP for BT2.1



OUTLINES - ENW89841A3KF



(Picture shows similar module)

Using the PAN1322-SPP it is now very easy to integrate Bluetooth 2.1 in your product.

When upgrading from the pin compatible previous SPP solution (PAN1321-SPP-BT2.0), all you need is small modifications in the antenna area to increase the RF performance.

The PAN1322 is manufactured in a 15,6 x 8,7 x 2.8 mm³ SMD LGA package with shielded case and will be qualified to the Bluetooth 2.1 standard.

Referring the existing certifications and using the simple and straight forward to use AT command set, you will be able to integrate PAN1322 into your application in a short time. This reduces the time to market to a minimum, compared to other solutions on the market.

PAN1321 and PAN1322 have very similar AT command sets. This module follows the national and international regulations, e.g. EMC, Safety, EN300328, FCC and IC.

FEATURES

General

- Supported Profiles: RFCOMM, SPP device A and B
- Complete Bluetooth 2.1 + EDR solution
- Ultra low power design
- Temperature from -40°C to +85°C (Industrial Range)
- No external components needed
- Integrates ARM7TDMI, RAM and patchable 32k EEPROM (for device configuration data and application)
- On-module voltage regulator. External supply 2.9-4.1V
- Reference clock included
- Low power clock from internal oscillator or external low power clock

Interfaces

- 3.25 Mbaud UART
- General purpose I/Os with interrupt and wake-up capabilities
- JTAG for boundary scan and debug

Bluetooth

- Visible for up to 3 services simultaneously (e.g. Android, Apple, Windows)
- Single active connection
- Baudrates 75-500kbit/s according UART speed and data packing
- Output power class 2

MODULES
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WIRELESS

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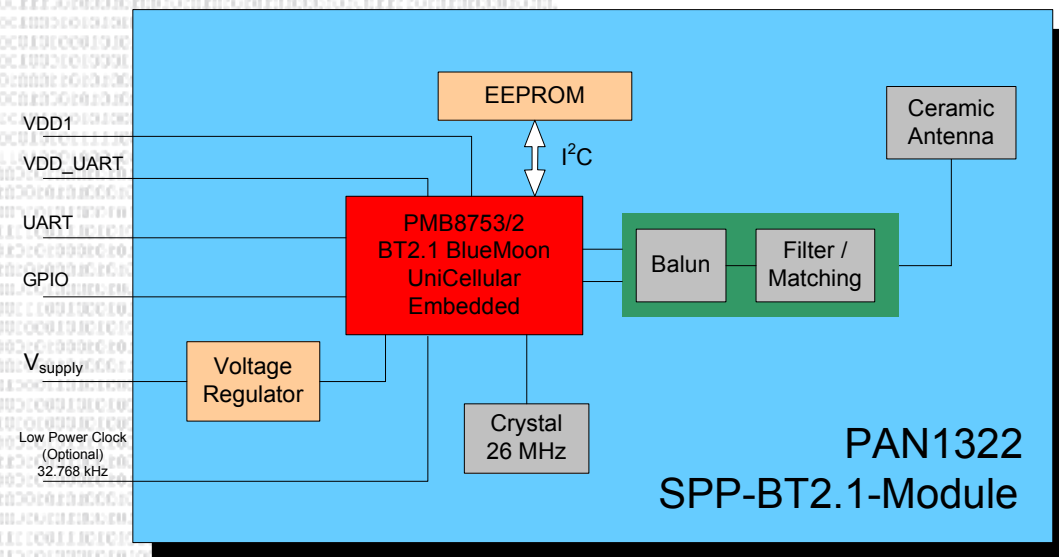
APPLICATIONS

All Wireless Applications

- Printer Adapters and Scanners
- Printers
- Access Points
- Wireless Sensors
- iOS and Android accessories

- Cable Replacement
- Personal Digital Assistants (PDAs)
- Industrial Applications

BLOCK DIAGRAM



PAN1322_Block_Diagram.vdw

TECHNICAL CHARACTERISTICS

Parameter	Value	Condition / Note
Receiver Sensitivity (BER=10 ⁻³)	-86 dBm typ.	ideal wanted signal
Output Power	+4 dBm typ.	
Power Supply	2,9 - 4,1 V 0.11 mA 0.8 mA 26 mA 18 mA	Single operation voltage Reset Visible, waiting for connection Data transmission 350kbit/s Data transmission 80kbit/s
Operating Temperature Range	-40°C to +85°C	

(1) Total throughput depends on application and interface setting.