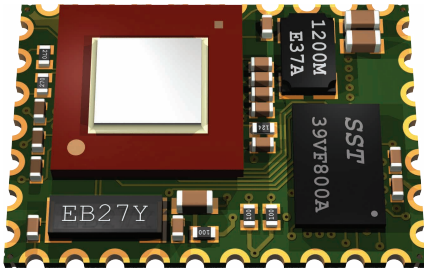


Bluetooth-Module PAN1450



[OUTLINES - ENW89803J]



The PAN1450 provides wireless interface per the BT 1.2 specification. Interoperability and BT compliance testing have been completed for the BT Chip ZV4301 from Zeevo, Inc. to facilitate rapid time-to-market.

The BT Chip incorporates a widely popular 32-bit ARM7TDMI™ CPU core with sufficient bandwidth to support a wide range of embedded μ Controller applications and the module provides full ARM7 software development access.

The PAN1450 is manufactured in a 13,4 x 18,7 x 2,2 mm³ SMD package and the only external component needed is an 50 ohm antenna.

Any customizations for the software can be handled with our recommended partners.

[FEATURES]

Overview

- Inquiry results with RSSI (1.2)
- Adaptive frequency hopping (AFH) enabled (1.2)
- High throughput (>600 kbps)
- Hold-, Park- and Sniffmode
- Up to 128 bit encryption
- Audio capability on an SCO channel
- Support for very low power modes - sleep and deep sleep
- All bluetooth data rates (up to 57,6/723,2Kbps)

User Interfaces

- Full-speed USB version 2.0 compliant
- Programmable baud rate UART (9,6 Kbps - 921,6 Kbps)
- Debug UART (DUART)
- 16 General Purpose I/O's (interruptible)
- PCM audio (1 channel)
- SPI and JTAG interface

Radio Features

- High sensitivity design (-86 dBm typ.)
- Integrated RF shield
- Class 2 module (0dBm typ. output power)
- One antenna port



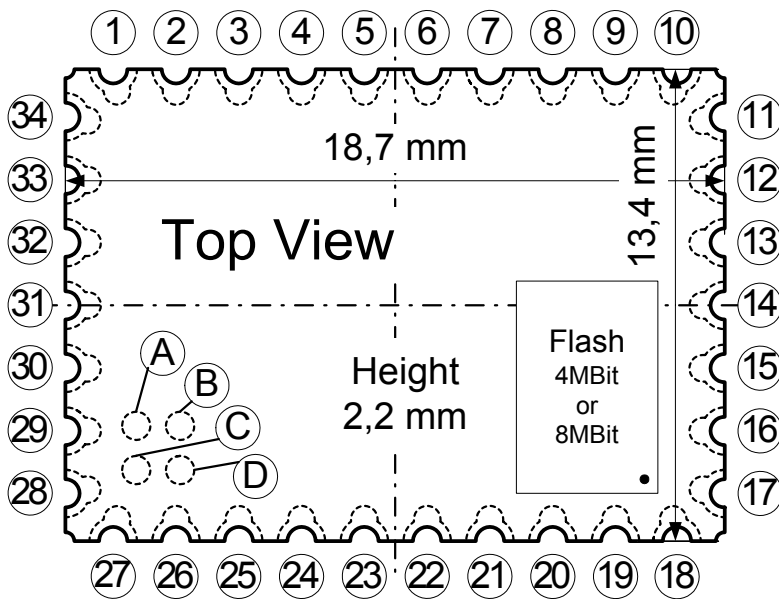
WIRELESS
MODULES

APPLICATIONS

All Embedded Wireless Applications

- Printer Adapters
- Printers
- Access Points
- Wireless Sensors
- Industrial Applications
- Cable Replacement
- Personal Digital Assistants (PDAs)
- PC Motherboards & - Peripherals
- Scanners
- Mono & Stereo Audio Applications

DIMENSIONS



No.	Name	No.	Name
1	GND	20	GPIO [13]
2	ANT	21	IF-SEL [15]
3	UART-CTS	22	GPIO [6]
4	UART-RXD	23	ATDO
5	UART-TXD	24	ATCK
6	UART-RTS	25	SPI-CLK [3]
7	PCM-CLK [9]	26	SPI-DO [0]
8	PCM-OUT [10]	27	GND
9	PCM-SYNC [7]	28	SPI-CS [2]
10	GND	29	SPI-DI [1]
11	ATRST	30	DUART-TXD [5]
12	PCM-IN [8]	31	DUART-RXD [4]
13	ATDI	32	USB-DM
14	ATMS	33	USB-DP
15	CE	34	INT 0
16	VDD	A	PA-CONTRL
17	RESET	B	TX-EN [12]
18	GND	C	RX-EN [11]
19	GPIO [14]	D	NC

TECHNICAL CHARACTERISTICS

Parameter	Value	Condition / Note
Receiver Sensitivity (BER=10 ⁻³)	-86 dBm	with DH5 package
Output Power	0 dBm typ.	max. 4 dBm
Power Supply	3,3 V	Single operation voltage
Deep Sleep Power Consumption	<0,5 mW	140µA@3,3V 32kHz Crystal is on board
Data over USB at max. throughput	<145 mW	43mA@3,3V
Sniffmode (Tsniff 375ms), no traffic	<7,5mW	2,2mA@3,3V
Operating Temperature Range	-25°C to +85°C	