

BT1200

DATASHEET

Ver 1.00

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Introduction

BT1200 Is a highly integrated, low power Bluetooth stereo Module

Bluetooth 2.0

Support A2DP V1.2, AVRCP V1.4, HSP1.2, HFP1.5 profiles.

Integrated EEPROM, Configurable working mode and parameters.

Internal MIC bias supply.

Internal MIC amplifier.

Stereo audio output can be driven directly 40mW@32 Ω speaker without blocking capacitor.

Five button inputs, including play/pair button, volume up, volume down, previous track, next track

Two indicators led are used to indicate different operating conditions

The individual IO port outputs H or L level during playback/pause to control the PA so that there is no noise.

Technical Parameters

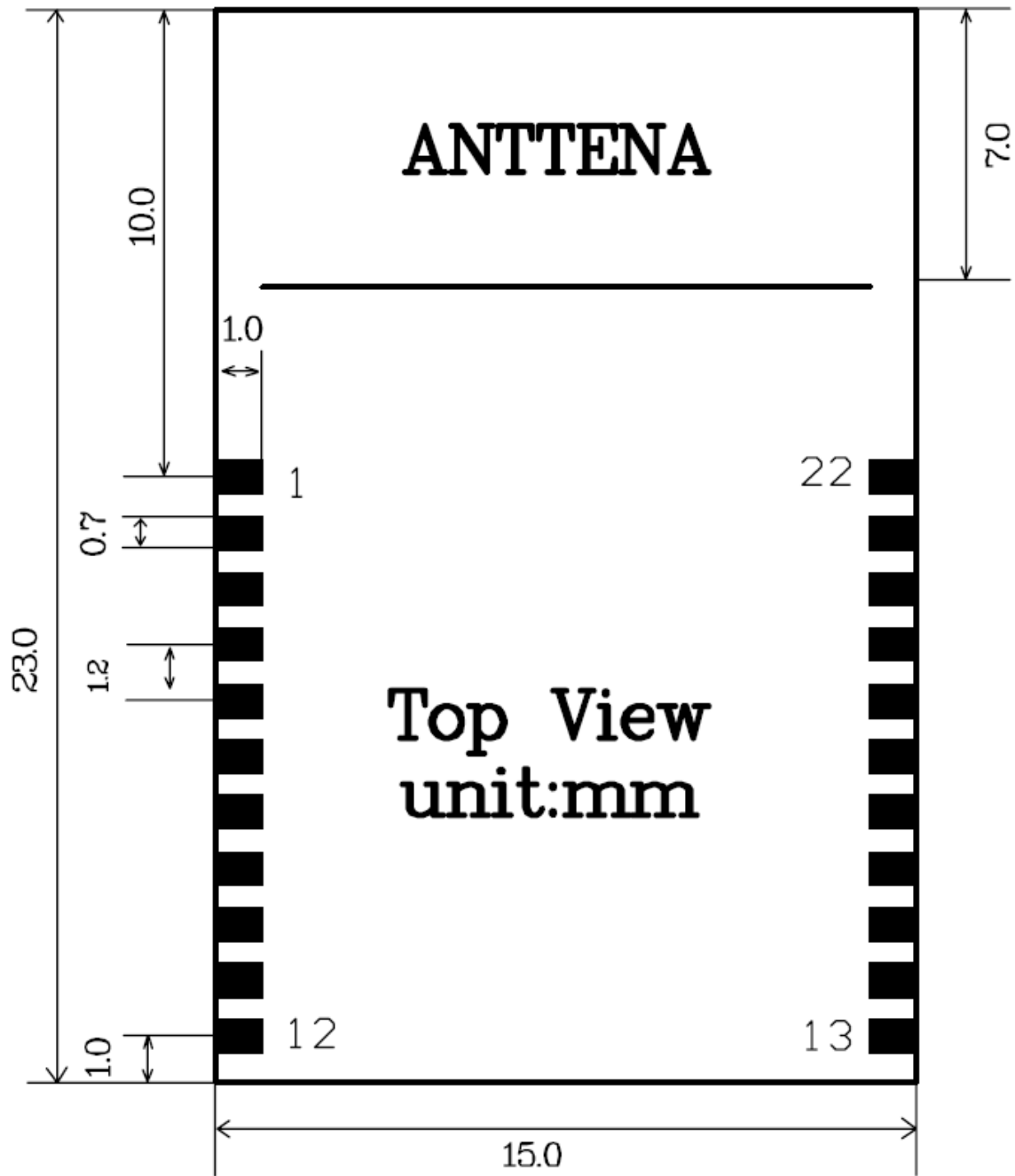
CATEGORIES	FEATURE	IMPLEMENTATION
Wireless Specification	Bluetooth	Version 2.0
	Frequency	2.402-2.480GHz
	Max Transmit Power	Class2
		-1.203dBm
	Receive Sensitivity	Better than -82dBm
	Range	10meters
	Data Rates	Up to 3Mbps over the air
UART DATA Transfer Rate	115200bps	
Host Interface	UART	No flow control support
Audio Interfaces	Microphone	Mono microphone input with bias
Profiles		A2DP V1.2–Sink Only
		AVRCP V1.4 –Controller Only
		HSP V1.2
		HFP V1.5
Supply Voltage	Supply	3.0V – 4.2V DC
Power	Current	Operational - Less than 80 mA (active)

Consumption	Consumption	Idle (sleep) < 10mA
Connections	External Antenna	Connection via SMT pad
Physical	Dimensions	15.0mm x 23.0mm x 2.0mm

PIN definition

NO.	Name	Types	Description
1	GND	Power	Ground
2	AOM	Audio	Audio common 0.9V Not grounded
3	AOL	Audio	Left channel audio output
4	AOR	Audio	Right channel audio output
5	MIC_IN	Audio	MIC input
6	MIC_BIAS	Power	MIC bias output
7	LED1(BLUE)	Sink	LED1 control terminal
8	LED2(RED)	Sink	LED2 control terminal
9	VCC3.3	Power	Internal power output
10	VBAT	Power	Battery powered 3.6V-4.2V
11	GND	Power	Ground
12	GND	Power	Ground
13	RESET	Digital	Active low, external reset capacitor
14	ONKEY(MFB)	Digital	Play/pause/external phone button
15	VOL-	Digital	Volume minus / reuse previous
16	VOL+	Digital	Volume minus/ reuse next
17	UART_TX	Digital	UART send signal
18	UART_RX	Digital	UART receive signal
19	Next	Digital	Next track
20	Prev	Digital	Previous track
21	MUTE	Digital	Play/pause output high or low
22	GND1	Power	Ground

Dimensions



Note

General, the BT module will connect to a main controller board and fixed on the main controller host, then we will mounted them in a closed metal box to prevent radiation emissions and meets the requirements of FCC 15.212 and KDB 996369.

FCC WARNING

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

15.105 Information to the user.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination.

The firmware setting is not accessible by the end user.

The final end product must be labelled in a visible area with the following:

"Contains Transmitter Module 2AQXV-BT1200"