

ASIWO
TS02 Bluetooth BLE Board



ASIWO TS02 Bluetooth BLE Board Owner's Manual

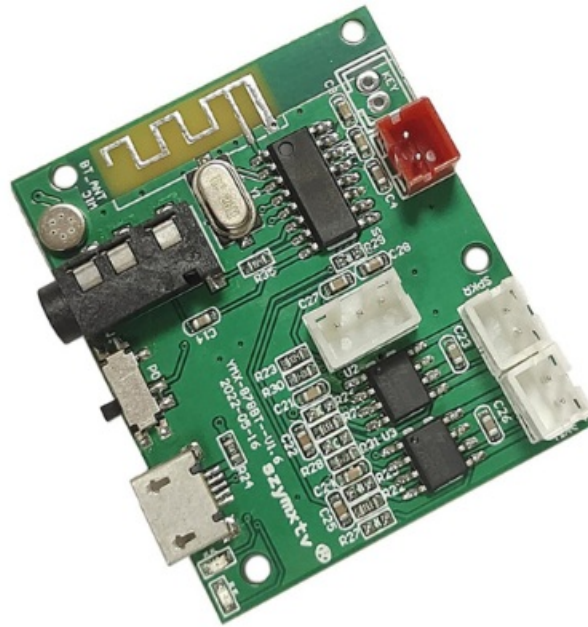
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ASIWO TS02 Bluetooth BLE Board



Specifications

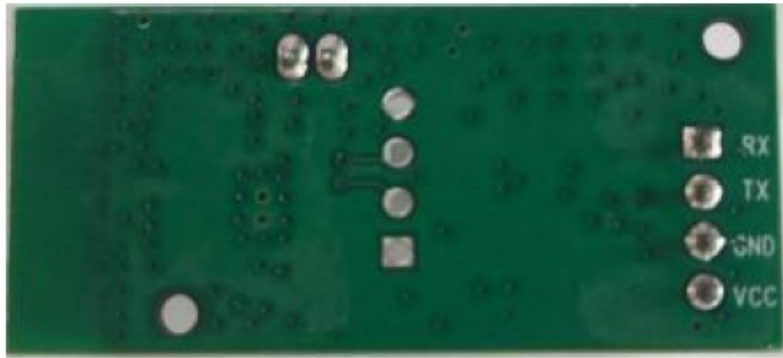
- **Customer Name:** Sample Name
- **Bluetooth BLE Board Sample part number:** TS02
- **Working frequency band:** 2.402GHz – 2.480GHz ISM V1.0
- **Power level:** Class II
- **Main chip:** AC6928B
- **Transmission power:** 8dBm Max
- **Receiving sensitivity:** -94dBm AT 0.1%BER 1Mbps
- **Power supply voltage:** 12V
- **Maximum receiving distance:** 5m
- **Size:** 40.0*18.0*8.7mm

Product Display

- **Positive:**



- **Reverse side:**



Product Description

- Bluetooth APP functions
- Transparent transmission and remote control functions
- Firmware upgrade function
- Electricity monitoring function
- ADC acquisition function
- PIO collection function
- Customize UUID functionality
- Power adjustable function
- Gain adjustable function
- Support customized services

Product Features

- BQB certification meets RoHS standards
- Over 100 AT instruction sets
- Ultra-low standby power consumption 90 μ A~400 μ A
- Ultra-fast reaction speed of 0.4 microseconds
- Universal for Android, Apple, and PC
- No byte limit for sending and receiving, up to 3K bytes/ssecon
- Supports RSSI instructions, Advanced Encryption Standard (AES) security coprocessor
- Small and cost-effective appearance, able to meet various customer needs

Application Area

- Fitness equipment: treadmills, fitness equipment
- Medical devices: heart rate meter, pulse measuring meter, blood pressure meter, digital thermometer
- Leisure and entertainment: remote control toys, audio speakers, game controllers/Bluetooth earphones
- Office equipment: printers, scanners, smart cards
- Commercial scanning: cash register, scanner, access control system
- Mobile phone peripherals: anti-loss device, alarm
- Transportation tools: torsion bikes, electric scooters, four-wheel scooters, and power-assisted bicycles

Recommended Parameters

Parameter	MIN	TYP	MAX	UNIT
Storage temperature	-30	+25	+75	°C
Working temperature	-20	+25	+70	°C
Working voltage VDD	6	12	40	V
GPIO	0	3.3	V	

LINGDONG INTELLIGENT TECHNOLOGIES CO., LTD.

SPECIFICATION

- Customer Name:
- Sample Name: Bluetooth BLE Board
- Sample part number: TS02

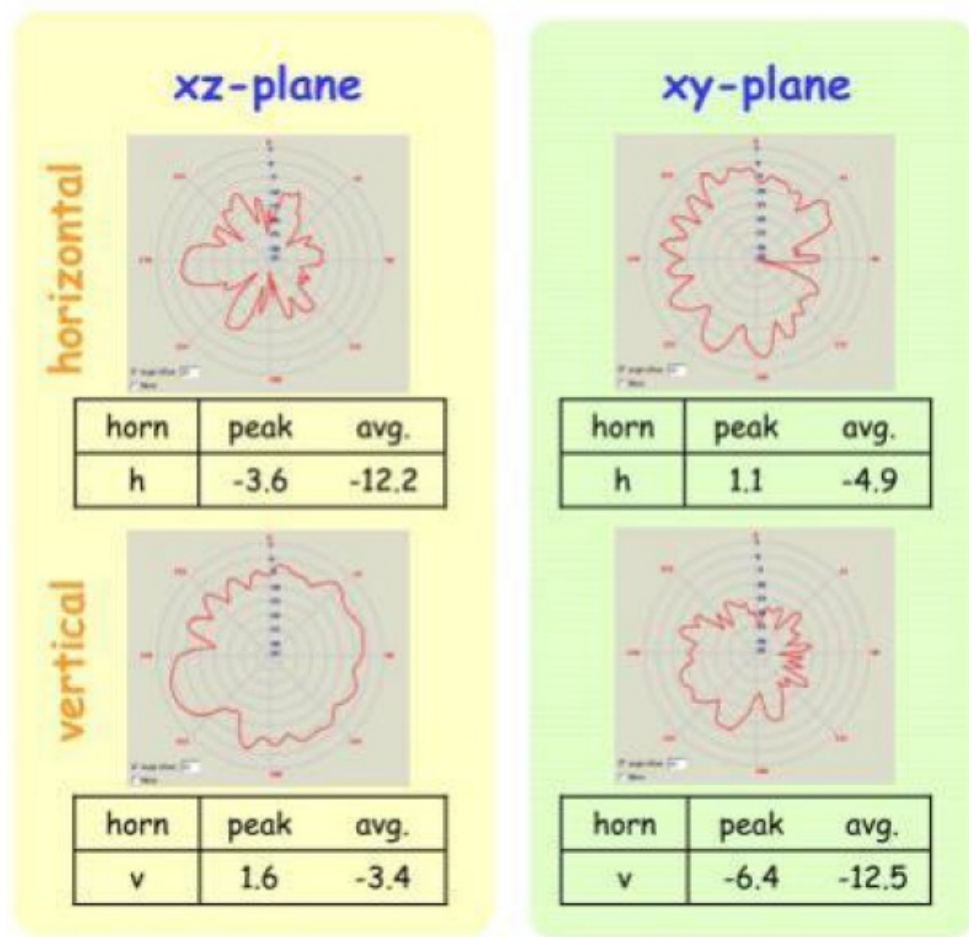
Factory seal:		Date: June 17, 2024
TESTED BY	CHECKED BY	APPROVED BY

Customer signature and seal

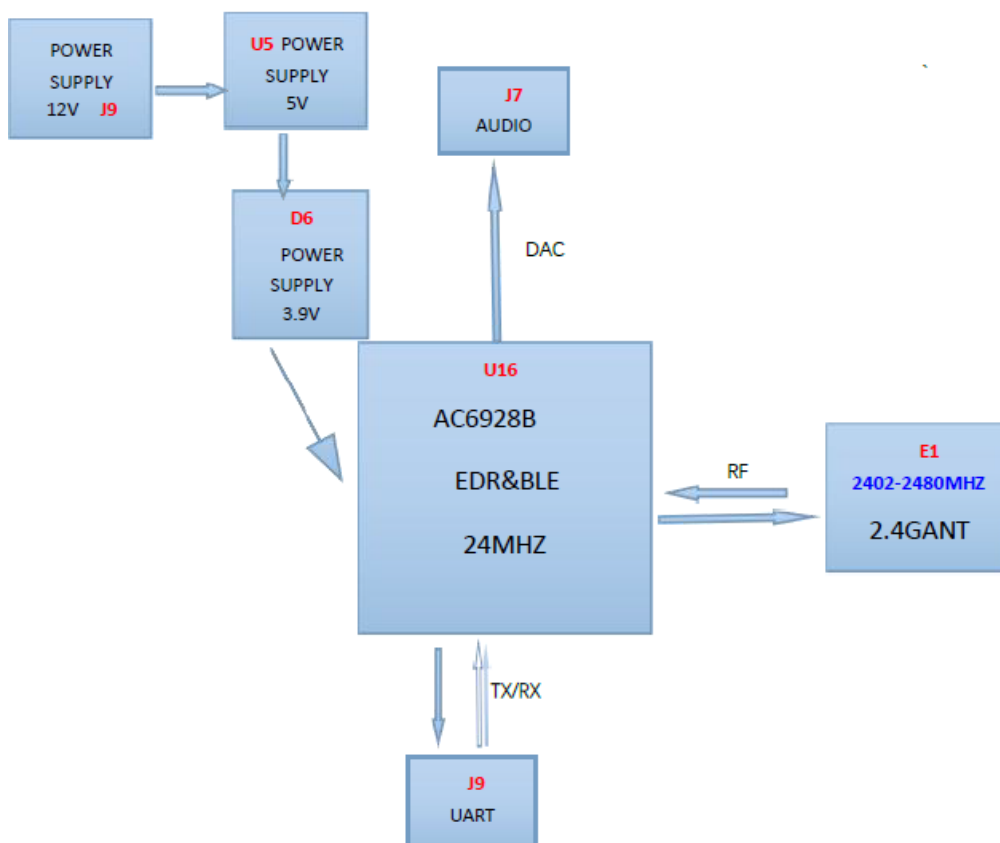
TESTED BY	CHECKED BY	APPROVED BY

Working frequency band	2.402GHz – 2.480GHz ISM
Bluetooth hardware version	V1.0
Power level	Class II
Main chip	AC6928B
Transmission power	8dBm Max
Receiving sensitivity	-94dBm AT 0.1%BER 1Mbps
Power supply voltage	12V
Maximum receiving distance	5m
Size	40.0*18.0*8.7mm

Radiation Patterns



Product Diagram



1. Power supply part: LDO U5 12V to 5V, power supply to U16 Bluetooth module after passing through D2;
2. Bluetooth module part: Bluetooth U16, audio DAC outputs audio signals to J7 interface, RF signals are

wirelessly connected to other Bluetooth devices through E1 2.4G antenna, and J9 UART serial port communicates with other devices.

PAIRING YOUR BLUETOOTH DEVICE

- Ensure both the Bluetooth function in your device and the Mini Bike are turned on
- Open the Mini Bike APP on your device to connect wirelessly to the Mini Bike
- On your device, locate the Bluetooth device list. Select “Hypergogo” from the list

FCC regulatory compliance statement

§15.19 Statement

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.

§15.21 Information to user

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

- List of applicable FCC rules:
- 47 CFR Part 15, Subpart C 15.247
- 47 CFR Part 2.1093

Summarize the specific operational use conditions

This module can be used in Electric Bike, the input voltage to the module is nominally 5V.

Limited module procedures

This module is a single module.

Trace antenna designs

The antenna is not a trace antenna.

RF exposure considerations

This Module 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.

Antennas

If you desire to increase antenna gain and either change antenna type or use the same antenna type certified, a Class II permissive change application is required to be filed by us, or you (host manufacturer) can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.

Label and compliance information

Please notice that if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains FCC ID: 2BC7L-TS02” Any similar wording that expresses the same meaning may be used.

§ 15.19 Labelling requirements shall be complied with on end-user devices.

Labelling rules for special devices, please refer to §2.925, § 15.19 (a)(5) and relevant KDB publications. For E-label, please refer to §2.935.

Information on test modes and additional testing requirements

The OEM integrator is responsible for ensuring that the end user has no manual instruction to remove or install the module. Test software access to different test modes: FCC_assist.exe

Testing items, Frequencies, Transmit Power, and Modulation Type can be selected on the test script instructions.

FCC other Parts, Part 15B Compliance Requirements for Host Product Manufacturer

- This modular transmitter is only FCC-authorized for the specific rule parts listed on our grant, host product manufacturer is responsible for compliance with any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.
- Host manufacturer in any case shall ensure host product which is installed and operating with the module is compliant with Part 15B requirements.

Please note that for a Class B or Class A digital device or peripheral, the instructions furnished in the user manual of the end-user product shall include the statement set out in §15.105 Information to the user or such similar statement and place it in a prominent location in the text of host product manual. Original texts are as follows:

For Class B

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 by 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 the receiver.
- Connect the equipment to 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.

For Class A

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used by the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Documents / Resources

SPECIFICATION

Version: 1.0

Model: TS02

Serial: 123456789

Model: TS02

Serial: 123456789

Model: TS02

Serial: 123456789

[ASIWO TS02 Bluetooth BLE Board](#) [pdf] Owner's Manual

TS02, TS02 Bluetooth BLE Board, Bluetooth BLE Board, BLE Board, Board

References

- [User Manual](#)

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