



WENSHING ELECTRONICS CD., LTD.

Products Introduce

Transceiver Module

Audio Module

Bluetooth Module





Transceiver Module Series

- TRW-V4
- TRW-24C
- TRW-24G
- TRW-900C
- TRW-400
- TRW-400C

- TRW-8IN8OUT
- TRW-24N
- TRW-900





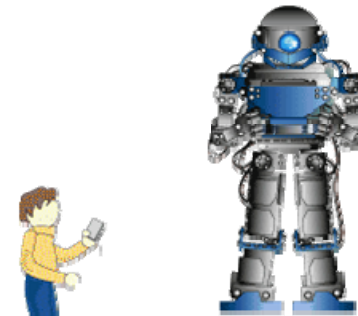
TRW-V4

- Voice transceiver module.
- High frequency, wireless, audio both way transmission.
- Including MCU to ODM any kind of functions clients asked.
- Frequency range: 315~928MHz;
- Power rate:10mW
- Modulate Mode: GFSK; Could be used to audio phone, wireless
- doorbell, Remote control (especially could be controlled by voice),
tool, long distance remote control device.

Wireless doorbell's device



Wireless toy shake accuse





TRW-24C

- It receives not launching half of to be duple Xing mould group not high-frequency
- Sense degree: -106dBm(1200bps)
- Frequency range of: 2.4~2.48GHz
- Working voltage: 2.7V~3.3V
- Power: +19dBm
- Adjusts the way of changing: MSK or GFSK
- Transfer rate: 1.2~250Kbps
- Effective distance of : The biggest 800M (1200bps)
- Can set up reception mode or the frequency of launching the way, power of transmission and receive frequently widely with the software.
- Pure digit designs RF, through MCU, SPI communication form, it is easy to plan.

- **Industry use remote control device (single direction).**



- **Heavy machine, build machine's wireless signaler's device (two-way direction).**



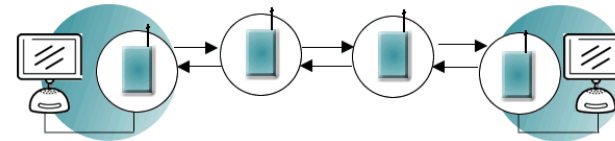


TRW-900C

- Transceiver.
- Sensitivity:-110dBm(1200bps)
- Frequency Range : 433.05MHz~434.775MHz
- Working Voltage : 1.8~3.6V
- Output power : 10mW
- Transmissible Rate : 1.2~250Kbps
- Range : 200~300M
- Simple digital design, RF can through the form of SPI to communicate.
- Build-in AFC, AGC, RSSI, changeable in frequency, channels, bandwidth and rate.
- More function in distance by adding antenna.

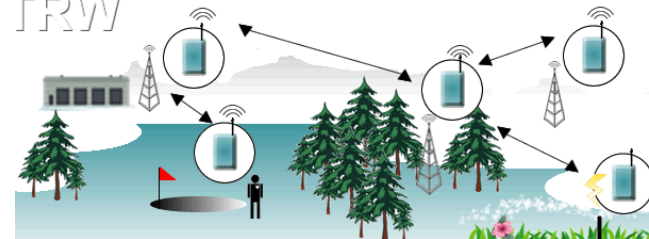
Apply for various type of products: Wireless Security.

TRW



System\Home Automation\Remote Control Systems\Automatic Meter.

TRW

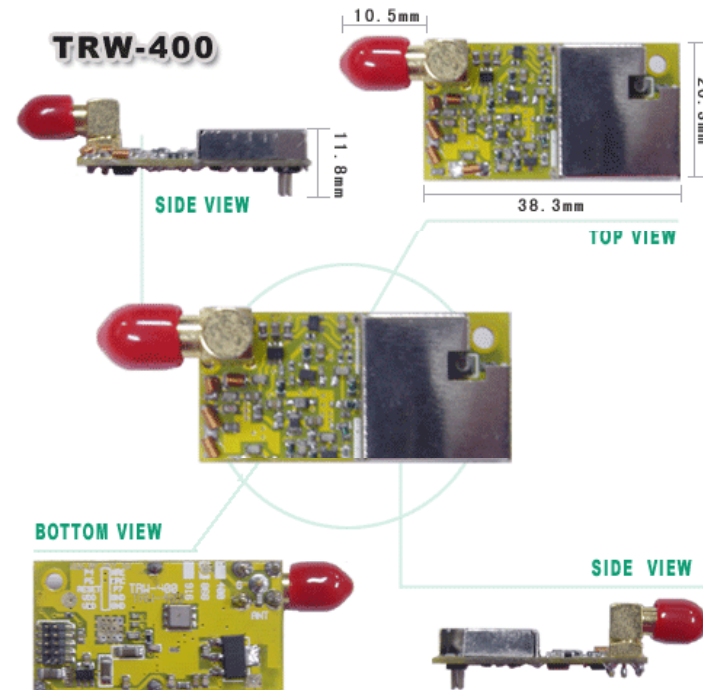




TRW-400

- Transceiver
- Frequency Range:431~435MHz
- Working Voltage:3.3~5V
- Power:+22dBm
- Modulate Mode: GFSK
- Data Rate:2.4Kbps~153.6Kbps
- Distance:2KM at most
- Simple digital RF designed, directly communicate by IO.
- Build in AFC, AGC, RSSI; Adjustable in Power, Channel, Band Width, Data Rate.
- Can lengthen distance by adding antenna.
- Application to: Wireless Security System, Home Automation, Remote Control Systems, Automatic Meter Reading, Remote Metering, Wireless Phone.

- **External Appearance**

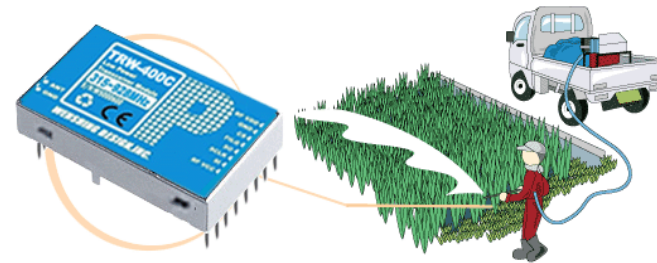


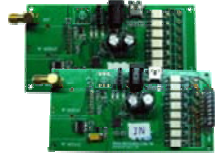


TRW-400C

- Transceiver.
- Sensitivity:-110dBm(1200bps)
- Frequency Range : 315~928MHz
- Working Voltage : 1.8~3.6V
- Output power : 10mW
- Transmissible Rate : 1.2~250Kbps
- Range : 200~300M
- Simple digital design, RF can through the form of SPI to communicate.
- Build-in AFC, AGC, RSSI, changeable in frequency, channels, bandwidth and rate.
- More function in distance by adding antenna.
- Suitable Products: Wireless security systems, household automation, remote systems, atomize reading, long distance remote and wireless phone.

- **Reading\Remote Metering\Wireless Telephone.**





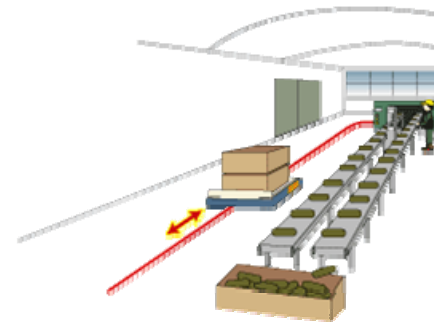
TRW-8IN8OUT

- 8 PIN In and 8 PIN Out, simple terminal PIN In, may penetrate the dip switch to control, also may penetrate the PC to control.
- When it's no signal, it demonstrates that the input - output has the photocopier to be the interface, and prevents the wave form of applied voltage.
- 8in8out is a module of 8 points PIN In and PIN Out, including transceiver and receiver module TRW- 900C (315~928MHz) ,greatly reduce consumer's operational complexity, 8in8out I/O not only penetrates the terminal to finish wiring easily, but also can permeate the PC control, proceed a pair of many communications.

- **Monitoring system of unusual industrial equipment.**



- **Auto-transportation system**

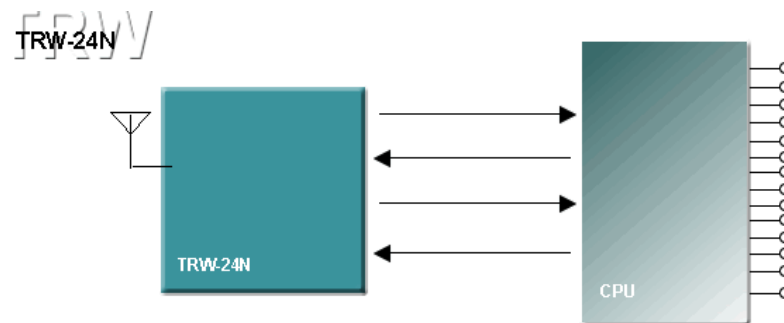
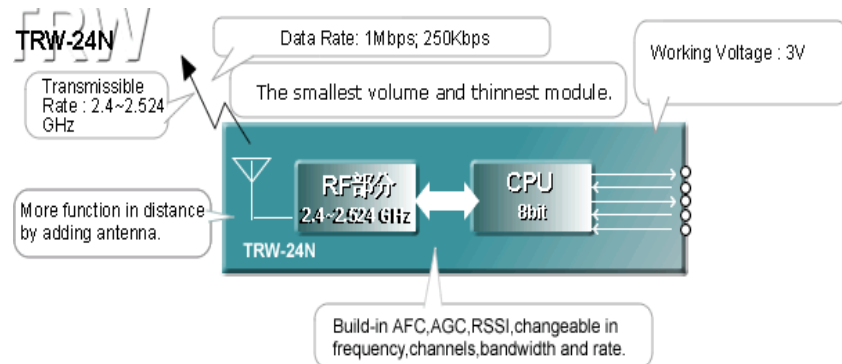


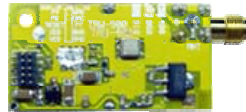


TRW-24N

- Frequency Range: 2.4~2.524GHz
- Modulate Mode: GFSK
- Work Voltage: 3V
- Channel: 83
- Output Power: +4dBm
- Data Rate: 1Mbps; 250Kbps
- Distance: 50m (250Kbps); 30m (1Mbps)
- No dead spaces in reception.
- The smallest volume and thinnest module.
- Built in antenna.
- Apply for various types of products: Wireless Joysticks, Wireless Speaker, and Wireless Earphone, Wireless Cell phone, Wireless Intercom, Wireless Mouse, Wireless Keyboard and Data Communication.

Characteristics:

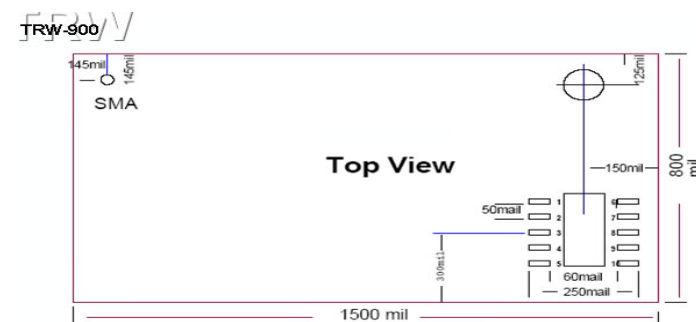
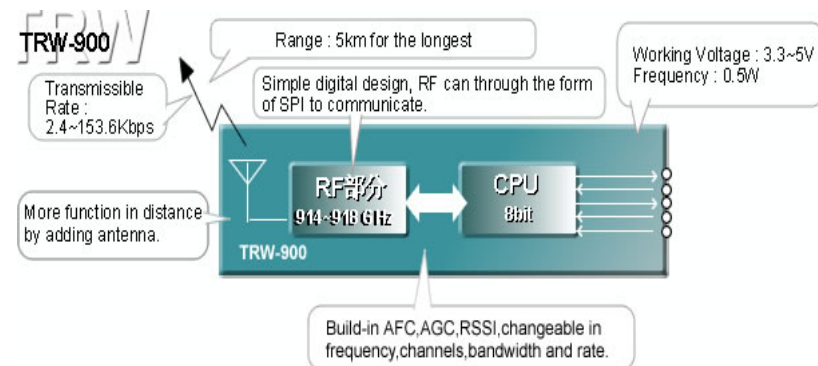




TRW-900

- Transceiver
- Frequency Range:914~918MHz
- Working Voltage:3.3~5V
- Power:3W
- Modulate Mode:GFSK
- DataRate:2.4/4.8/9.6/19.2/38.4/76.8/153.6Kbps
- Distance: Around 5km
- Simple digital design, make RF can communicate through SPI form.
- Build-in AFC, AGC, RSSI; Changeable in frequency, channels, bandwidth and rate.
- Can lengthen distance by adding antenna.
- Application to: Wireless security systems, household automation, remote systems, atomize reading, long distance remote and wireless phone.

Characteristics:



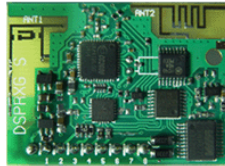


Wireless Audio Module

- RWS-AUDIO24
- TWS-AUDIO24
- TRW-V4

- RWS-800MICO
- TWS-800MICO
- RWS-800 MICI
- TWS-800MICI

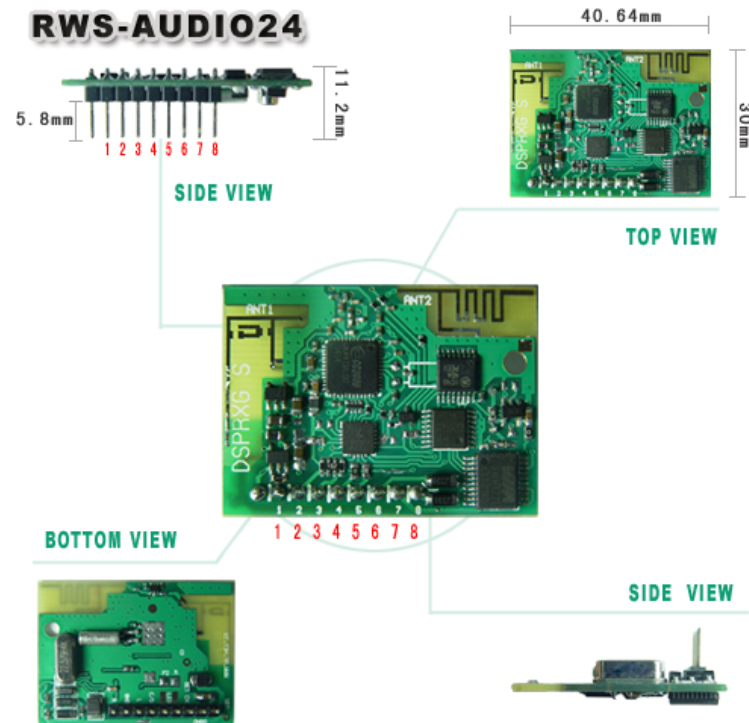


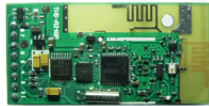


RWS-AUDIO24

- This module is 2.4GHz ISM band Wireless Audio Receiver Module.
- High power rate and long distance (the largest may to +15dBm).
- Including high quality DSP arithmetic unit, input volume control, and support many kinds of the newest digital controlling rank surface (SPI, I2C, UART , PWM, D/A).
- Low working voltage (the lowest may to 3V), low working current 75mA (5V). It may fit in with FCC, CE approval. It's suitable to 5.1 audio, wireless headset and projectors. It's the best digital wireless designed.

External Appearance

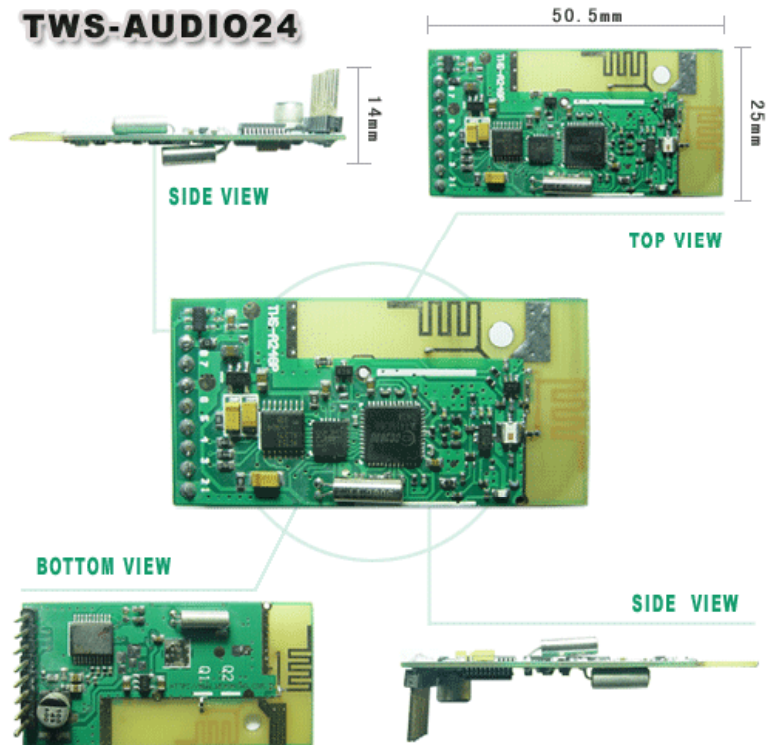




TWS-AUDIO24

- This module is 2.4GHz ISM band Wireless Audio Transmitter Module.
- High power rate and long distance (the largest may to +15dBm).
- Including high quality DSP arithmetic unit, input volume control, and support many kinds of the newest digital controlling rank surface (SPI, I2C, UART, PWM, D/A).
- Low working voltage (the lowest may to 3V), low working current 75mA (5V).
- It may fit in with FCC, CE approval. It's suitable to 5.1 audio, wireless headset and projectors. It's the best digital wireless designed.

External Appearance





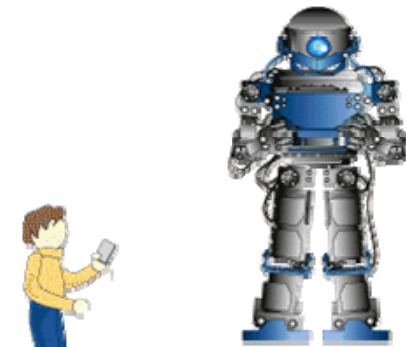
TRW-V4

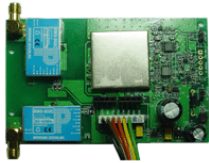
- Voice transceiver module.
- High frequency, wireless, audio both way transmission.
- Including MCU to ODM any kind of functions clients asked.
- Frequency range: 315~928MHz;
- Power rate:10mW;
- Modulate Mode: GFSK; Could be used to audio phone, wireless doorbell, Remote control (especially could be controlled by voice), tool, long distance remote control device.

- **Wireless doorbell's device**



- **Wireless toy shake accuse**

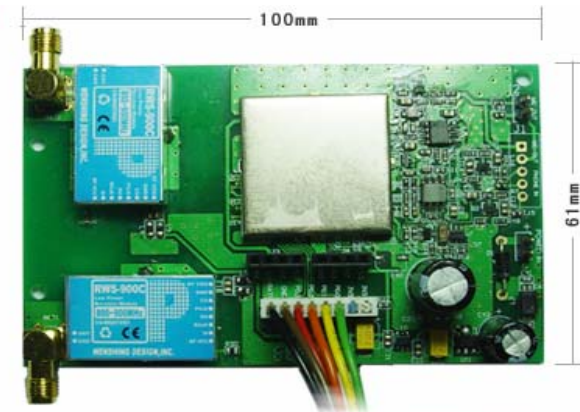




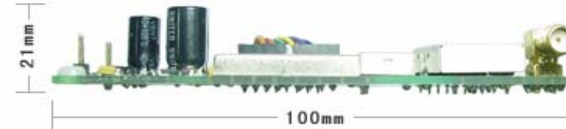
RWS-800MICO

- Frequency: 800MHz
- Digital wireless microphone receiver module is used newest high frequency and the DSP sound processing technology, doesn't have the interference, double digital RF design, automatic AFC, AGC, auto-scan frequency, auto-catch up the microphone, can digital telecontrol output volume, to display microphone's battery, the OLED is demonstrated in the receiver machine.....etc.

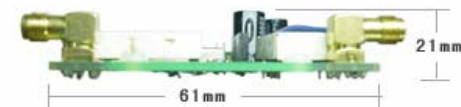
TOP VIEW



SIDE VIEW



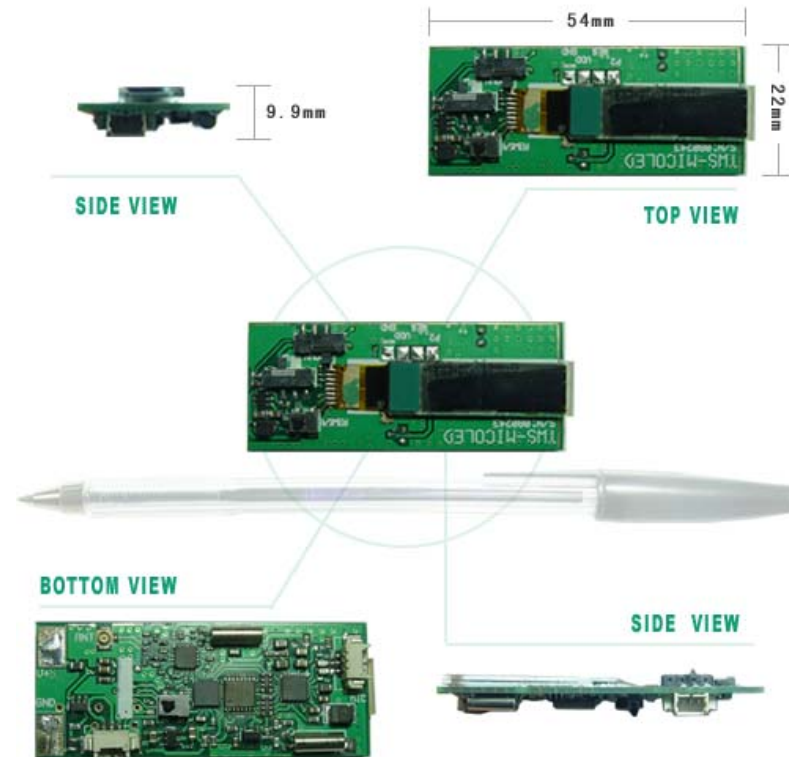
SIDE VIEW





TWS-800MICO

- Frequency: 800MHz
- Digital wireless microphone transmitter module is very simple used, so long as is joined to the microphone, then may is the most advanced digital wireless microphone in the world.
- This module can be adjusted by digital on microphone's sensibility, frequency channel, frequency response, the receiving frequency channel, the dynamic scope, the transmitting power, the OLED is demonstrated in the microphone, it would be very convenient for operating.





RWS-800MIC1

- Frequency: 800MHz
- Digital wireless microphone receiver module is used newest high frequency and the DSP sound processing technology, doesn't have the interference, double digital RF design, automatic AFC, AGC, auto-scan frequency, auto-catch up the microphone, can digital telecontrol output volume, to display microphone's battery, the OLED is demonstrated in the receiver machine...etc.





TWS-800MIC1

- Frequency: 800MHz
- Digital wireless microphone transmitter module is very simple used, so long as is joined to the microphone, then may is the most advanced digital wireless microphone in the world.
- This module can be adjusted by digital on microphone's sensibility, frequency channel, frequency response, the receiving frequency channel, the dynamic scope, and the transmitting power.

TOP VIEW



BOTTOM VIEW



SIDE VIEW



SIDE VIEW





Bluetooth Module Series

- TRW-24BUC1
- TRW-24BUC2
- TRW-24BUC3

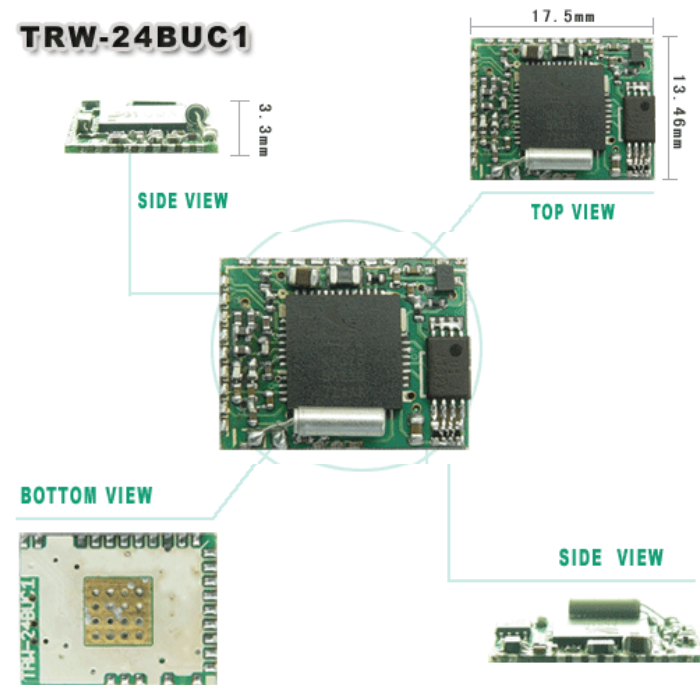
- TRW-24BUF
- TRW-24BUL

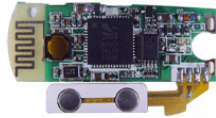


TRW-24BUC1

- TRW-24BUC1 is specialized to design for the module of Bluetooth Wireless headset.
- Adopt the newest V2.0 Bluetooth commercial agreement, easy design for the peripheral, the working voltage may be down to 1.9V; include the battery charging circuit, the low electric power prompt function, adjust the volume, the power light, the battery charge indicate light...etc.
- To match up with the PC, the cell phone, or any other communicators which have Bluetooth language may be able to connect with this module with wireless, and will be easy to make the final product.

External Appearance

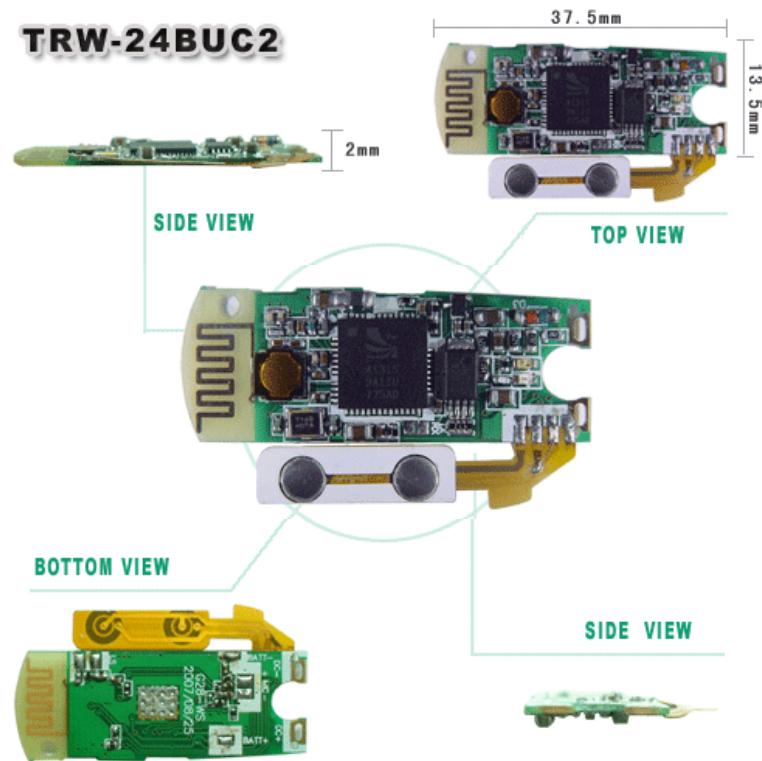


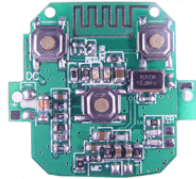


TRW-24BUC2

- TRW-24BUC2 is specialized to design for the module of Bluetooth Wireless headset.
- Adopt the newest V2.0 Bluetooth commercial agreement, easy design for the peripheral, the working voltage may be down to 1.9V; include the battery charging circuit, the low electric power prompt function, adjust the volume, the power light, the battery charge indicate light...etc.
- To match up with the PC, the cell phone, or any other communicators which have Bluetooth language may be able to connect with this module with wireless, and will be easy to make the final product.

External Appearance



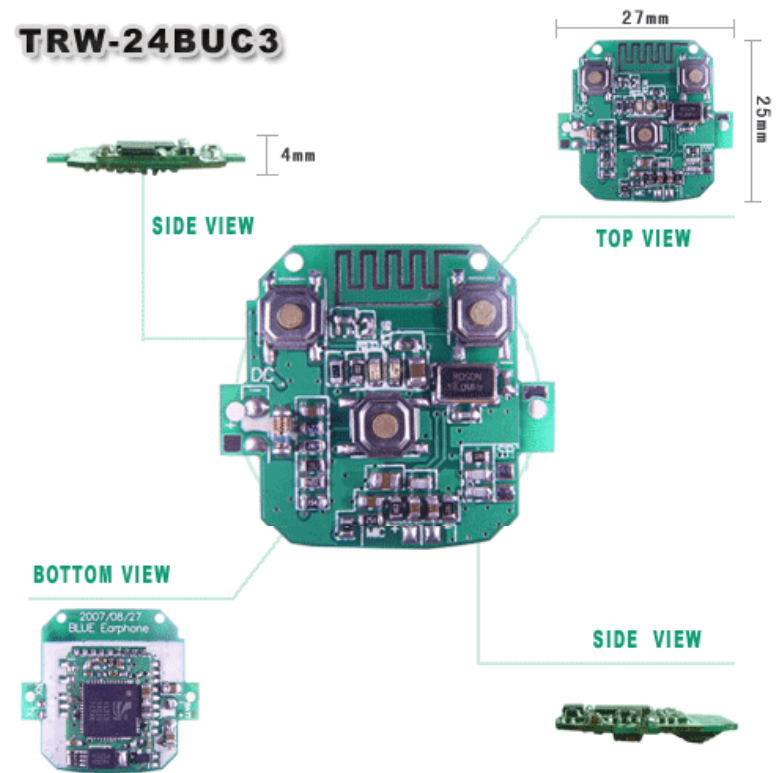


TRW-24BUC3

- TRW-24BUC3 is specialized to design for the module of Bluetooth Wireless headset.
- Adopt the newest V2.0 Bluetooth commercial agreement, easy design for the peripheral, the working voltage may be down to 1.9V; include the battery charging circuit, the low electric power prompt function, adjust the volume, the power light, the battery charge indicate light...etc.
- To match up with the PC, the cell phone, or any other communicators which have Bluetooth language may be able to connect with this module with wireless, and will be easy to make the final product.

External Appearance

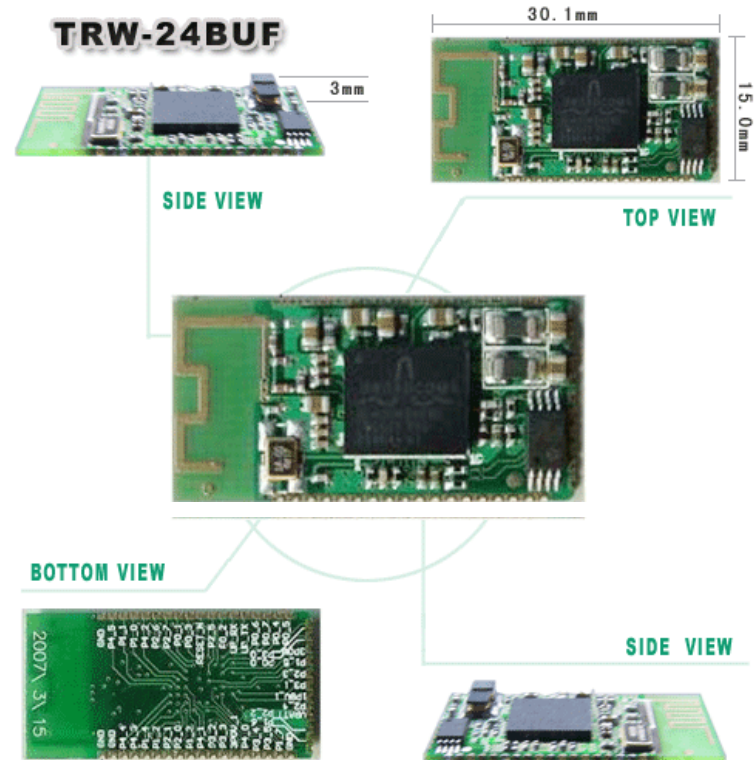
TRW-24BUC3





TRW-24BUF

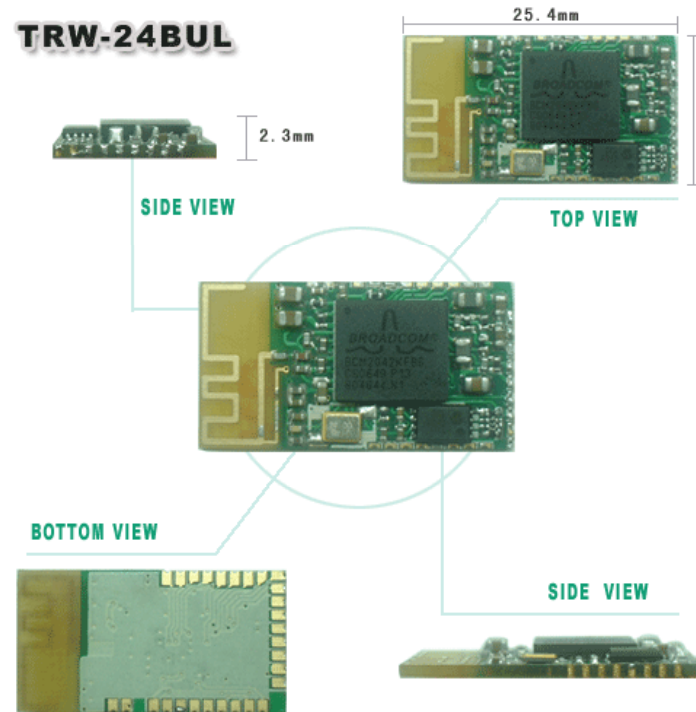
- Wenshing Bluetooth Module is a Bluetooth module using Broadcom BCM2042 Bluetooth controller.
- This module is ideal for applications in wireless mouse, keyboard, joystick and gamepad. Build-in firmware adheres to Bluetooth HID profile.
- This module is integrated with PCB antenna, crystal, EEPROM and switching regulators to reduce the external BOM cost. It has been designed to provide ultra low power, low cost and robust communications and fully compliant with Bluetooth radio specification V2.0.





TRW-24BUL

- TRW-24BUL is specially applied in Bluetooth module of wireless mouse. Using the newest V2.0 Bluetooth module communication agreement.
- It's easy to peripheral design and the production. The working voltage may be lower to the 1.9V ultra low electric current, contains low electric power sound prompt function, and condition indicating light.
- Support standard mouse 5key, may match the mouse light inductor which is general to been used in market, may done with Will as well.





WENSHING ELECTRONICS CO.,LTD.



Thanks for Your Attention!!

