

**Shenzhen  
T7663B2 Wi-Fi  
plus Bluetooth  
Module**



# Shenzhen T7663B2 Wi-Fi plus Bluetooth Module Owner's Manual

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# Shenzhen

**Shenzhen T7663B2 Wi-Fi plus Bluetooth Module**



## PRODUCT INFORMATION

This product can support the USB2.0 protocol, based on the IEEE802.11 a/b/g/n/ac standard design. With all the way to send and receive all the way (2T2R) dual channel work, maximum transmission rate of up to 867 Mbps. Ensure that users browse and download data flow, security and stability. T7663B2-7K5L wireless Wi-Fi USB peripheral product supports Windows XP/Vista / 7 / Linux operating systems. In SKYWORTH TV, it has been completely embedded in the product and the driver, without user to install, and at the same time supports Linux and Android.

## Production operations

**Used in TV production operations is as follows:**

1. Turn on the TV, switch to the “home page” interface.
2. Select “Settings” feature. “OK” to enter;
3. Select “network setup” function. “OK” to enter;
4. Choose the “wireless network”, “OK” to enter;
5. According to the needs, select “auto search”, “manual connection”, etc. Press the “OK” to enter;
6. Choose their own after the AP name “OK” to enter, Enter the password; The Television system has a memory function, for the first time to use should be according to the above steps, later not need to operate, boot automatically connected. If need to change the AP or change the mode of connection, need according to the above steps again.

## SPECIFICATION

### 2.4G WIFI antenna

Operating Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz
Antenna Type:	WIFI_ANT1/2: On-board Antenna
Antenna Gain:	2.4G_WIFI_ANT1/2: 3.01dBi;

#### BT/BLE antenna

Operating Frequency:	2402MHz to 2480MHz
Antenna Type:	On-board Antenna
Antenna Gain (Peak):	3.01 dBi;

#### 5G WIFI antenna

Operating Frequency:	5180-5825MHz
Antenna Type:	WIFI_ANT1/2: On-board Antenna
Antenna Gain:	WIFI_ANT1/2: 5150MHz to 5350MHz: 3.08 dBi, 5470MHz to 5725MHz: 3.28 dBi, 5725MHz to 5850MHz: 2.55 dBi

Added antenna specifications:	
Operating Frequency:	Bluetooth: 2402MHz to 2480MHz
	Wi-fi 2.4G ant1/2: 2412~2462 MHz
	Wi-fi 5G ant1/2: 5180-5825MHz
Antenna type	Bluetooth: IFA

Gain	Wi-fi 2.4G ant1/2: On-board Antenna
	Wi-fi 5G ant1/2: On-board Antenna
	Bluetooth: 4.30dBi
	Wi-fi 2.4G ant1/2: 2.92dBi
	Wi-fi 5G ant1/2:
	5150MHz to 5350MHz: 2.68 dBi, 5470MHz to 5725MHz: 2.89 dBi, 5725MHz to 5850MHz: 2.55 dBi

## FCC

### FCC Notice

The device complies with the FCC rules, Part 15. 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 instruction manual, 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 on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

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

### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

### ISED Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

#### **IC Radiation Exposure Statement:**

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. The end user must follow the specific operating instructions to satisfy RF exposure compliance. This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and any part of your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Integration instructions for host product manufacturers according to KDB 996369 D03 OEM

#### **USER'S MANUAL OF THE END PRODUCT**

##### **List of applicable FCC rules**

This module meets the requirements of FCC part 15C (15.247&15.407).

##### **Summarize the specific operational use conditions**

This module is a stand-alone module. If the end product involves the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer has to consult with the module manufacturer for the installation method in the end system.

##### **Limited module procedures**

Not applicable

Trace antenna designs

Not applicable

##### **RF exposure considerations**

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 & your body.

##### **Antennas**

This radio transmitter FCC ID: 2ANM3T7663B2, has been approved by the Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

##### **Label and compliance information**

The final end product must be labeled in a visible area with the following: " Contains TX FCC 2ANM3T7663B2 ". If the size of the end product is larger than 8x10cm, then the following FCC part 15.19 statement has to also be available on the label:

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.

### **Information on test modes and additional testing requirements**

Host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

### **Additional testing, Part 15 Subpart B disclaimer**

Host manufacturer is responsible for compliance of the host system with the module installed with all other applicable requirements for the system such as Part 15 B.

### **Industry Canada Statement**

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

### **RSS-Gen Section 8.4 User manual notice**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This device is intended only for OEM integrators under the following conditions: (For module device use)

1. The antenna must be installed such that 20 cm is maintained between the antenna and the users, and
2. The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

### **IMPORTANT NOTE:**

In the event that these conditions can not be met (for example, certain laptop configurations or colocation with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.

### **End Product Labeling**

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with

the following: “Contains IC: 23165-NTUDT12”.


Manual Information to the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user’s manual of the end product that integrates this module. The end user manual shall include all required regulatory information/warnings as show in this manual.

FAQs

- **Q: What should I do if the device causes interference?**
  - A: Ensure that the device is operated in compliance with FCC rules. If interference persists, contact the manufacturer for further assistance.
- **Q: Can I use antennas not listed in the manual?**
  - A: Antennas not included in the approved list with gain greater than specified are strictly prohibited for use with this device to avoid interference and ensure compliance.

Documents / Resources

	<p><a href="#">Shenzhen T7663B2 Wi-Fi plus Bluetooth Module</a> [pdf] Owner's Manual 2ANM3T7663B2, T7663B2 Wi-Fi plus Bluetooth Module, T7663B2, Wi-Fi plus Bluetooth Module, Bluetooth Module, Module</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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