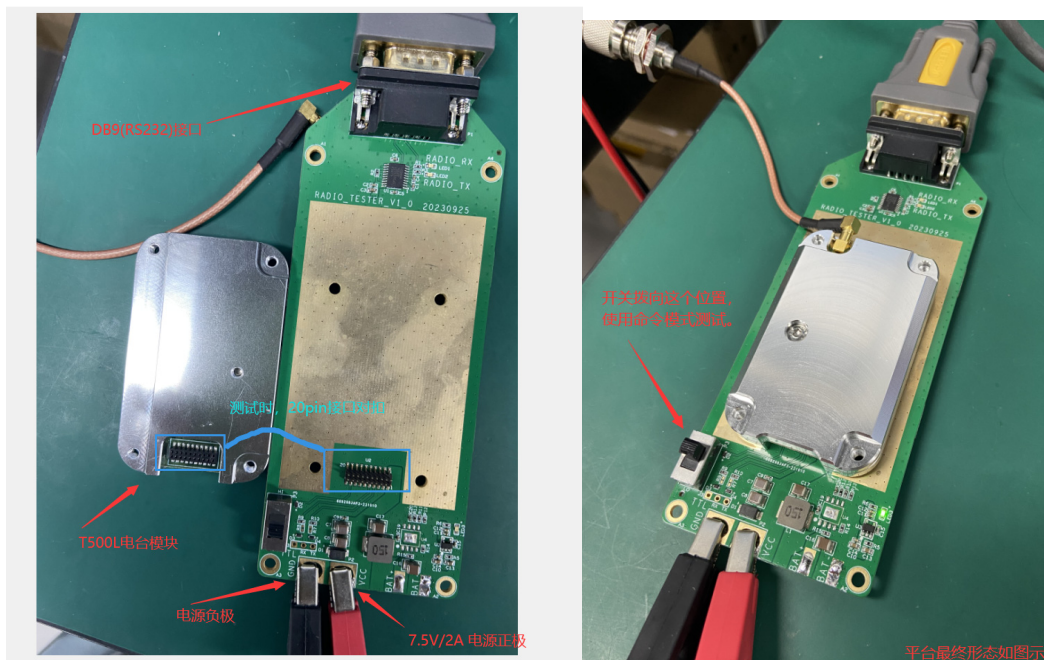


# T500L Module instruction manual

## I 、 platform construction



The platform construction method is shown in the figure above

1. The MMCX line conducts the RF signal to the test instrument.
2. Use DC power supply 7.5V current limiting 2A.
3. Connect the DB9 serial cable to the PC.
4. Use the SSCOM serial port test software or other serial port debugging software on the computer (the switch of the test kit should be turned to the position shown in the figure).

## II 、 CW mode test instructions and methods

### (a) mode test operation instruction:

Common test commands are as follows: (Baud rate is 115200, and you need to check enter and newline, the command will return PROGRAM OK after success)

Prt trintalk (Switch to trintalk protocol)

prt loralink (Switch to lora link protocol)

tx 438.125 (Transmit frequency switched to 438.125Mhz, frequency range 410~470Mhz, interval 25k)

rx 438.125 (Receiver frequency switched to 438.125Mhz, frequency range 410~470Mhz, interval 25k)

pwr h (using high power 5W)

pwr l (using low power 3W)

cw on (Start launching)

cw off (stop transmitting)

## (b) CW Pattern test method:

1. Select a protocol
2. Select the transmission frequency
3. Select high and low power
4. Start launching
5. Stop launching.



## III、 Data mode test instructions and methods

### (a) Data mode test operation instructions:

Common test commands are as follows: (Baud rate is 115200, and you need to check enter and newline, the command will return PROGRAM OK after success)

prt trintalk (Switch to trintalk protocol)

prt loralink (Switch to loralink protocol)

tx 438.125 (Transmit frequency switched to 438.125Mhz, frequency range 410~470Mhz, interval 25k)

rx 438.125 (Receiver frequency switched to 438.125Mhz, frequency range 410~470Mhz, interval 25k)

pwr h (using high power 5W)

pwr l (using low power 3W)

0123456789 (Input send data at least 600 bytes)

### (b) Data pattern test methods

1. Select a protocol
2. Select the transmission frequency
3. Select high and low power
4. Enter send data 0123456789 (at least 600 bytes)
5. Flip the switch downwards
6. Select scheduled sending

Note: When switching configurations, you need to stop the transmission first, and then restart the transmission after all information is configured.

**FCC WARNING:**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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 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.

**FCC RF EXPOSURE STATEMENT:**

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

Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01

**2.2 List of applicable FCC rules**

CFR 47 FCC PART 15 SUBPART C/E has been investigated. It is applicable to the modular.

**2.3 Specific operational use conditions**

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

**2.4 Limited module procedures**

Not applicable

**2.5 Trace antenna designs**

Not applicable

**2.6 RF exposure considerations**

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 30cm from your body.

## 2.7 Antennas

This radio transmitter FCC ID: 2BDE5-T500L has been approved by 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.

No.	Antenna Type	Antenna Gain	Impedance	Frequency Range
1	external antenna	4 dBi	50Ω	410-470MHz

## 2.8 Label and compliance information

The final end product must be labeled in a visible area with the following " Contains FCC ID: 2BDE5-T500L"

## 2.9 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.

## 2.10 Additional testing, Part 15 Subpart B disclaimer

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