

---

# Ling-T3A remote module specification



## Overview

Ling-T3A is a RF remote transmission module with independent intellectual property rights, using high-performance RF chip, integrated RF transmission and 1 million sets of remote control coding; the module directly connect the pins can become a remote control, It can be combined into 15 keys, visual distance of about 100 meters, equipped with high gain PCB antenna, RF remote control development is very simple.

This module can be perfectly matched with Ling-R1 receiving module to form an RF remote control system; Ling-R1 output 4 switches or serial data with four modes: flip, click, interlock and serial port. The whole system is free of development and rapid mass production.

Ling-T3A has been widely used in light control switches, wireless doorbell, smart home, coil gate, remote control toys, anti-theft alarm and other fields.

## Characteristics

- wide voltage 2.0-5.0V
- high-gain PCB antenna
- simple to use
- low dormancy 0.1uA
- 1 million group 1527 coding

- 
- supports 15 keys (combination)

## Parameters

- operating frequency: 433.92Mhz
- operating voltage: 2.0-5.0V
- emission current: 6mA@3V, 9mA@5V
- modulation mode: ASK / OOK
- Frequency offset:  $\pm 150\text{KHz}$
- antenna impedance:  $50\Omega$
- shape dimension:  $24.38 \times 15.75\text{mm} \times 2.9\text{mm}$  [long, width and thickness]
- operating temperature:  $-20$  to  $+75^\circ\text{C}$

## Notes

1. The module has 4 switch quantity input, which can be combined into 15 keys.
2. The module has its own PCB antenna. Please do not apply copper under the antenna or place metal objects near the antenna.
3. The back of the module shall be installed lying flat close to the PCB board, It supports backflow welding.

## Foot description

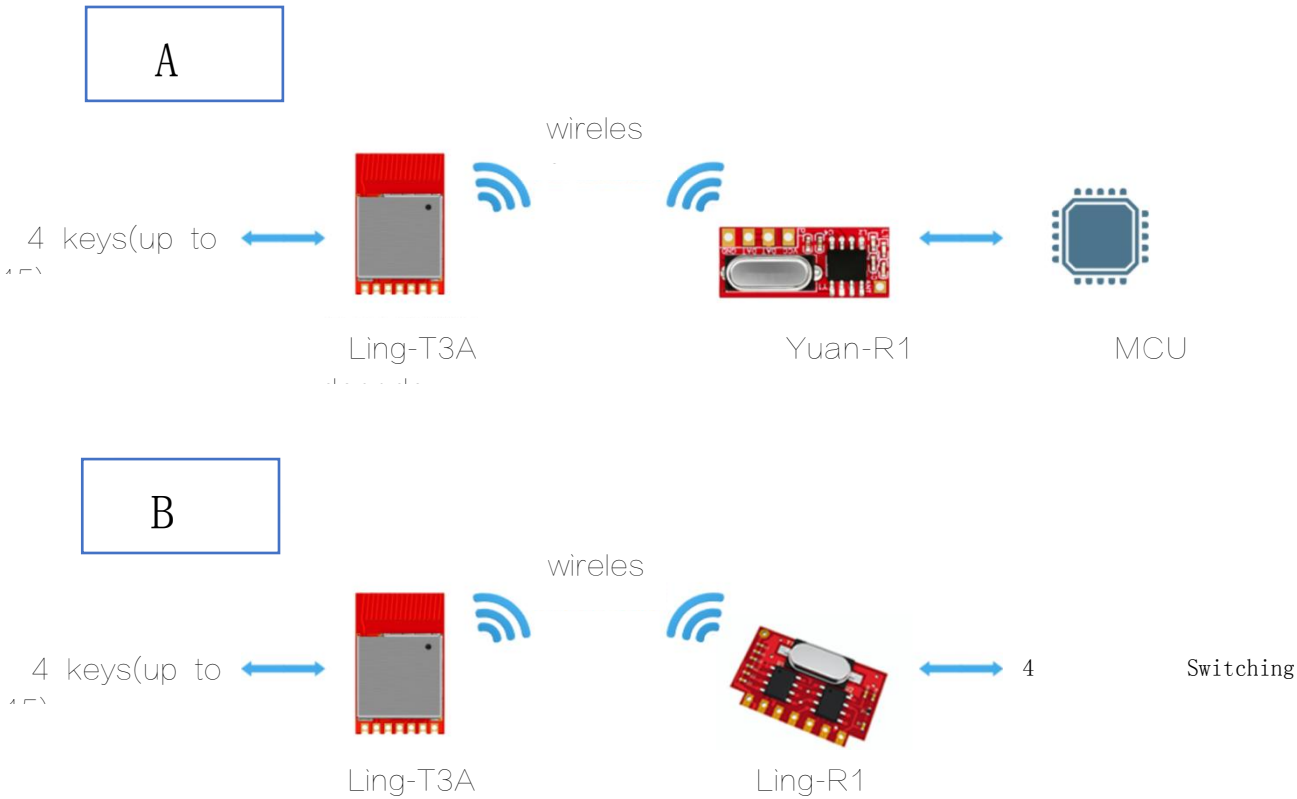


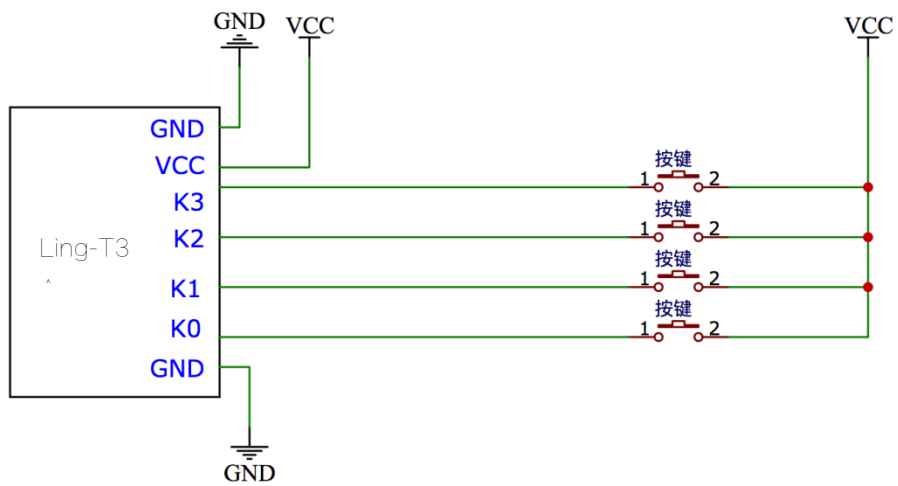
Pin	Description
GND	Power -
K0	Connect the key button The corresponding D3 output of the Ling-R1

---

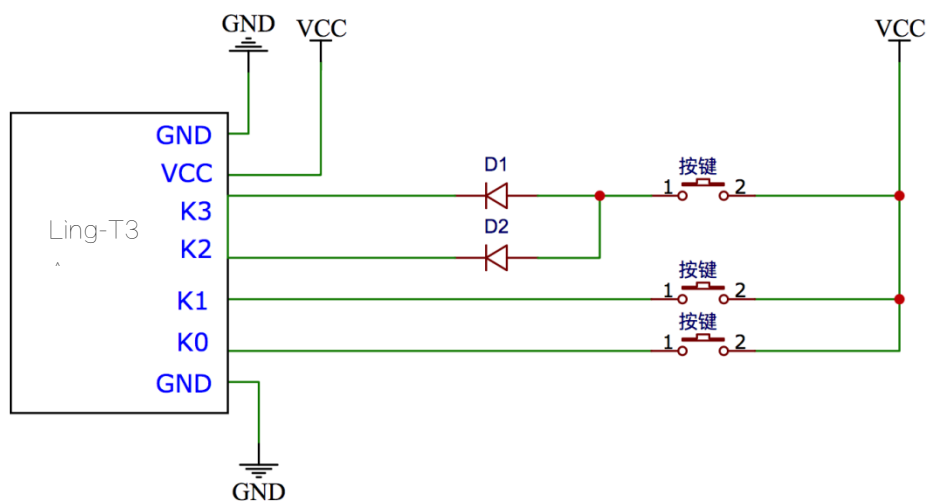
K1	Connect the key button The corresponding D2 output of the Ling-R1
K2	Connect the key button The corresponding D1 output of the Ling-R1
K3	Connect the key button The corresponding D0 output of the Ling-R1
VCC	Power +
GND	Power -

Connecting



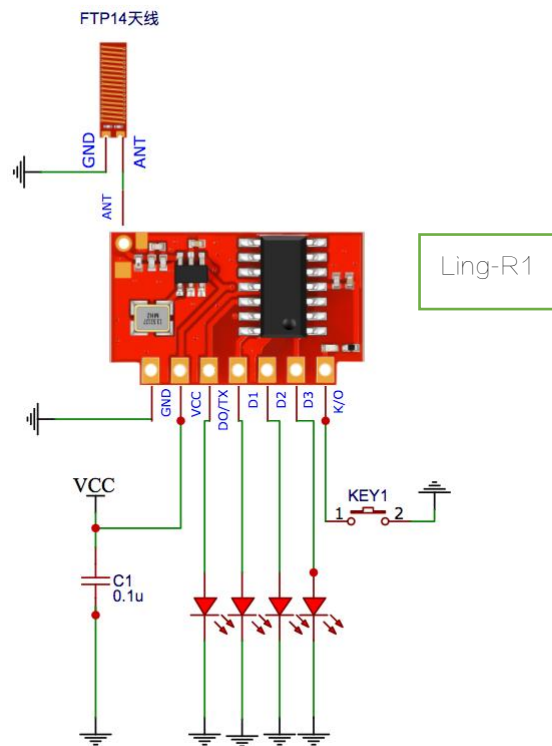


Combination keymethod:



---

Receiver terminal "Ling-R1" connection diagram



Ling-T3A	Ling-R1
K3	D0
K2	D1
K1	D2
K0	D3

---

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

---

modifications or changes could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction. Federal Communication Commission (FCC) Radiation Exposure Statement Power is so low that no RF exposure calculation is needed.

**This device is intended only for OEM integrators under the following conditions:**

1. The antenna must be installed such that 20 cm is maintained between the antenna and users. 2. The transmitter module may not be co-located with any other transmitter or antenna. As long as the two conditions above are met, additional transmitter testing will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required for the installed module.

**Important Note:** In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the Federal Communications Commission of the U.S. Government (FCC) and the Canadian Government authorizations are no longer considered valid and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator shall be responsible for re-evaluating the end-product (including the transmitter) and obtaining a separate FCC authorization in the U.S. and Canada.

**OEM Integrators - End Product Labeling Considerations:** 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, FCC ID: 2A3VI-LING-T3A". The grantee's FCC ID can be used only when all FCC compliance requirements are met.

**OEM Integrators - End Product Manual Provided to the End User:** The OEM integrator shall not provide information to the end user regarding how to install or remove this RF module in end product user manual. The end user manual must include all required regulatory information and warnings as outlined in this document.