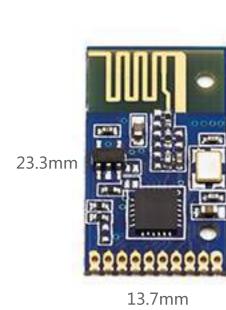
L24YK 6-port Switch Module 2.4G FHSS

Item Info

General Information:

L24YK series are switch transmitters and receivers, of which L24YK-TXH, L24YK-TXL are transmitters , L24YK-RX1,L24YK-RX2,L24YK-RX3,L24YK-RX4 are receivers. L24YK series adopts newest SOC technology, no further development is needed. It features 120m distance in open space, and FHSS technology enables it to work in groups without frequency interference. One L24YK transmitter can work with multi L24YK receivers, and one receiver multi transmitters.

Apperance

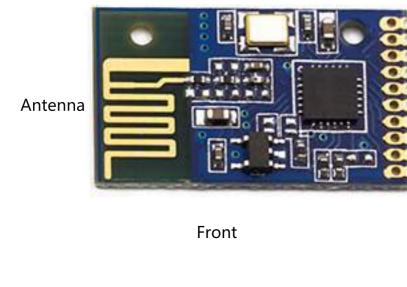


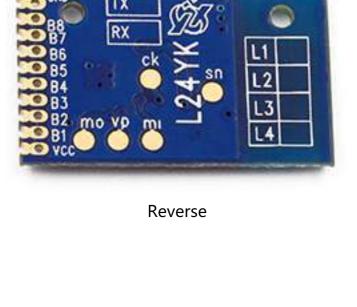
Quick Reference Data *Frequency: 2.4-2.5Ghz

*Interface: 6-port switch *Distance: 120m in open space

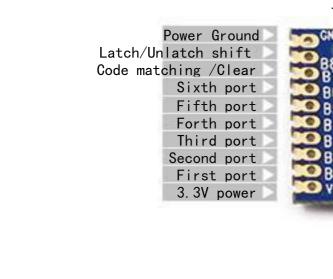
*Consumption: Transmit standy mode3uA , Receive Min 0.06mA *Features: Code matching Configurable Latch or Unlatch

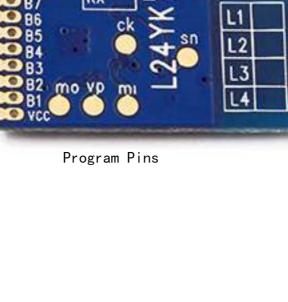
*Supply Voltage: 2.2-3.6V, typical 3.3V





TX for Tansmit, RX for receive Power Ground





Features

Pin Assignment

Development -Free

Internal MCU En/Decode

Low Power Consumption

Transmit standby mode 3uA

Receive customed 0.06mA

4 receivers

120m in open space **Easily Use**

Internal Power Amplifier

Long Distance



Operate Temperature -40-80 °C

6 keys directly connect for transmit





Security Code matching/ Forbidden code matching Unique ID for every transmit ID

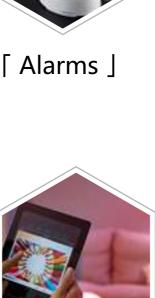
Latch/Unlatch switch Through configurate Pin B8

Applications







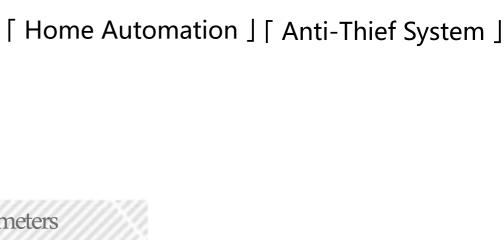




[Anti-Lost Device]

[RC Switch]







Frequency

Standby Current

Output Power

Max Data Rate

ID

Distance

Voltage

Sleep Current

Modulation

Input

Antenna

Dimensions

Receivers:

发射键

发射键

发射键

发射键

发射键

B2

B3

B4

B5

B6

BI

TX



2.4-2.5Ghz

3uA

12dBm

2Mbps

Unique

120m

3uA

GFSK

6-port switch

PCB Antenna

23.3X13.7X2.1mm

 $2.2 \sim 3.6 V$



Frequency

Receive Current

Modulation

Code Match

Output Status

Distance

Voltage

Data Channel

Ouput

Antenna

Dimensions

471

471

471

471

471

B7 对码禁止

B2

B3

B4

B5

B6

RX

Receive Sensitivity



0.06/0.2/2/24mA, Default: 24mA

2.4-2.5Ghz

GFSK

120m

 $2.2 \sim 3.6 V$

-95dBm

6 switch

PCB Antenna

23.3X13.7X2.1mm

6

Latch/Unlatch

Max 20 transmit IDs

L24YK-RX4, work with L24YK-TXH, 24mA, quick response, multi channels task at one time

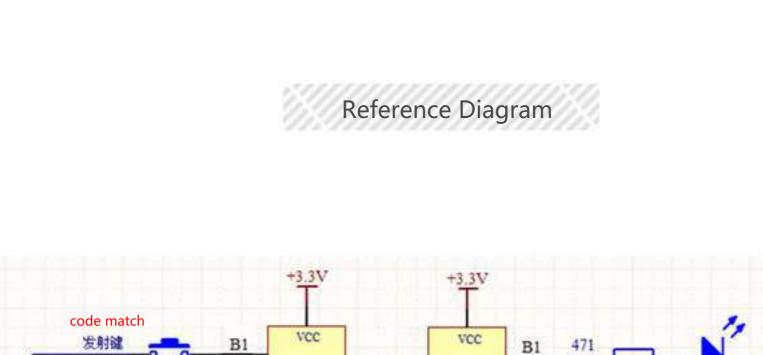
L24YK-RX2, work withL24YK-TXL, 0.2mA 0.3s push, zero custom

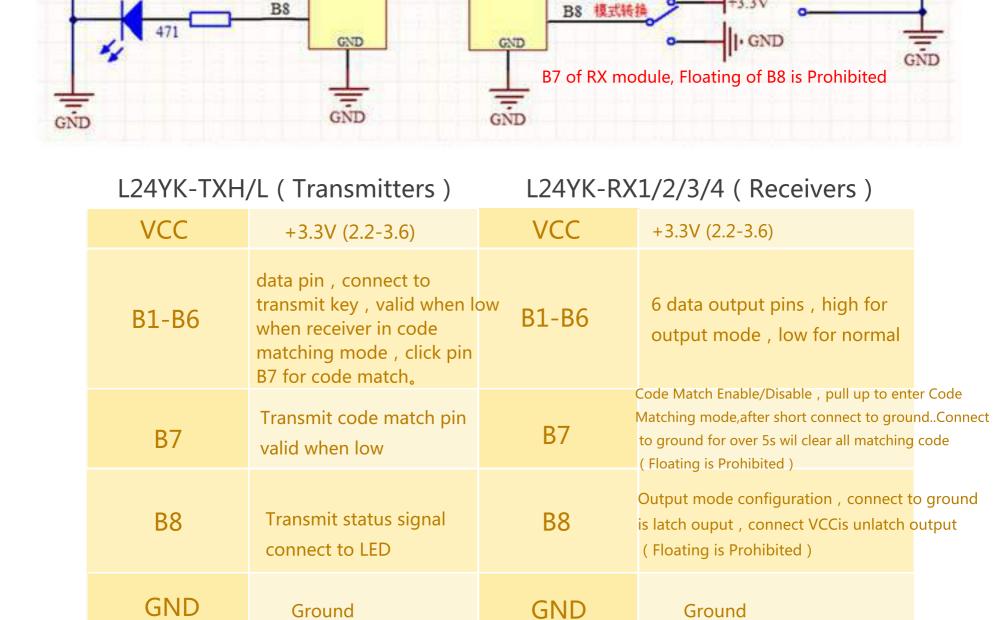
L24YK-RX3, work withL24YK-TXL, 2mA for 0.03s push zero custom

Transmitters: L24YK-TXH, work with L24YK-RX4, quick response, multi channels task at one time

L24YK-TXL, work with-L24YK-RX1/2/3, late response, one channels only

L24YK-RX1, work with L24YK-TXL, 0.06mA 1s long push, zero custom





quit pushing the transmit key makes it zero level on receive end

succeeded.

receiver should output high level and LED on.

Code Match:

Under latch mode, click the key one time, receive output high level and latch, click the key again, receive output change to low level One transmitter can match multi receivers at the same time, one receiver can match max

Under unlatch mode, keep pushing on the transmit key, output high level on receive end,

Supply power, short connect to ground of pin B7 of Receiver and enter into code matching

Supply power to transmitter within 10s, push down pin B7 for code matching, succeed

while LED of receivers flashing. Receiver can work with muti transmitter, receiver will exit

Push pin B1-B6 successively of transmitter after code match succeeded, port relative to

code matching mode after stay on over 10s, re-supply power if not continue code matching

mode, LED light stay on.(LED connect to pin B6, high when enter into code matching mode)

Keep pull-down pin B7 of receiver over 5s, all saved code will be clear. Re-match code is required if use. Test:

20 transmitters. Pull up pin B7 of receiver to prohibit code matching after code match

The controller can test valid distance after code matching succeed, push pin B1-B6 of transmitter, if pin B1-B6 of receiver has output, LED light will be on.

L24YK-RX1/2/3 is designed for low power consumption, the low consumption is acchieved through

Distance is 120m in open space. Normal mode of transmitter is standby mode with low power consumption, transmit current appears when transmit keys are pushed down, life time of battery can be years. L24YK-RX4 is with quick response, there is no sleep mode of it, works with L24YK-TXH.

power supply. Output signal of receiver is level signal, output current is 2mA, 3V LED is workable, for more load, power amplifier is needed. Teh connection of supply power must be correct, supply voltage cannot

sleep mode, it needs to wake up by pushing the transmit key for 1s. The module requires stable

Antenna of the module is PCB antenna, can be welded on user's PCB, but no lines or metal is allowed on the board under the Antenna of the module, otherwise valid distance may shorten.

FCC VERIFICATION OF CONFORMITY Certificate No. 1 ENGINEERITABLE & We have eith confern the following designated product: MODEL NO-CRIXII, CIS. ARS. ARL ARS. CRIX. CRIX. H34A, H3V4F, RIVAD. CHY, HIVE, HIVIN, MYK. (Product Identification) Has been fested and Round in compliance with the requirements of KT CERS PART 15 regulation \$ AND DOLA for the exacusion of the evaluation of Class 6 of electromagnetic compatibility. It is only WHILE CONNECTOR WITH THE REAL REPORT NUMBER OF CONTROL OF SHIPLE P. this covice complies with Part 15 of the PCC rules, operation is autient to the following two conditions (1) This denice may not close harmful attirference, and (3) This done must accept any interference received, including interference that may cause (identification of regulation/standards) This declaration is the responsibility of the manufacture/importer Shenzhen City, Ling Cheng Xin Electronics Co., Ltd. Brom 1109, Yong Hui business building Nungchang 1st indostutial zone 37s. Shu road 2nd,Xi Xiang town, Baour District , Shendhen city ,China (Name / Address) MANUFACTURER / IMPORTER samples of the product is in contamily with the ShenZhen USG Technology Co.,Ltd.

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be more than 3.6V, or the module will be burned.

