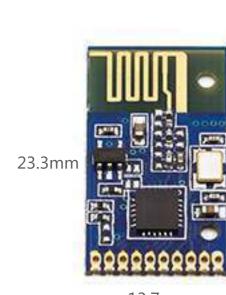
L24YK 6-port Switch Module 2.4G FHSS

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.

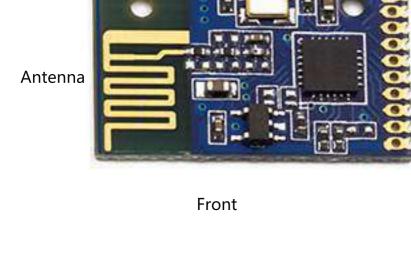


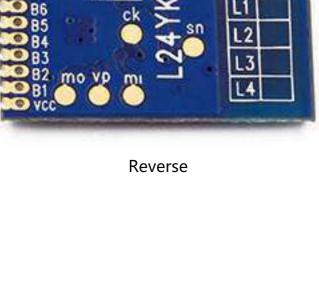
Quick Reference Data

*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

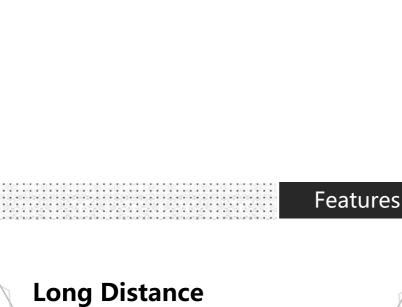
*Supply Voltage: 2.2-3.6V, typical 3.3V 13.7mm





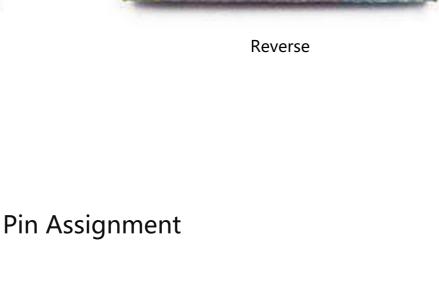
TX for Tansmit, RX for receive Power Ground Latch/Unlatch shift Code matching /Clear

Program Pins



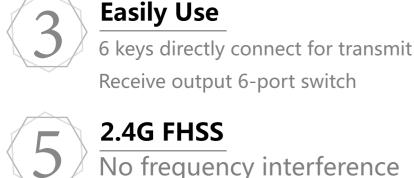
Sixth port Fifth port Forth port

Third port Second port First port 3.3V power



4 receivers

Internal Power Amplifier 120m in open space





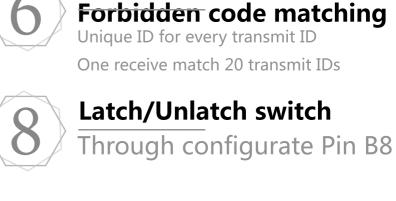
Receive customed 0.06mA

Security Code matching/

Development -Free

Internal MCU En/Decode











[RC TOY]



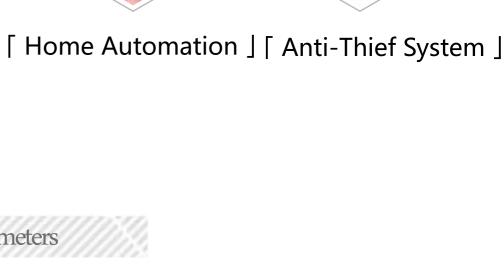




[Anti-Lost Device]









Frequency

Standby Current

Output Power

Max Data Rate

ID

Distance

Voltage

Sleep Current

Modulation

Input

Antenna

Dimensions

Receivers:

code match

发射键

发射键

发射键

发射键

发射键

发射键



2.4-2.5Ghz

3uA

12dBm

2Mbps

Unique

120m

3uA

GFSK

6-port switch

PCB Antenna

23.3X13.7X2.1mm

VCC

TX

connect to LED

Ground

receiver should output high level and LED on.

BI

B2

B3

B4

B5

B6

2.2 ~ 3.6V



120m

2.2 ~ 3.6V

-95dBm

6 switch

PCB Antenna

23.3X13.7X2.1mm

6

Distance

Voltage

Data Channel

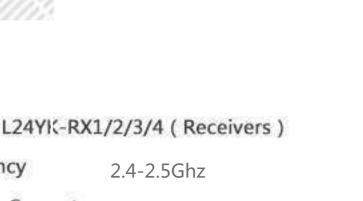
Ouput

Antenna

Dimensions

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

Receive Sensitivity



Reference Diagram

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

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

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

vcc

RX

BI

B2

B3

B4

B5

B6

471 471

471

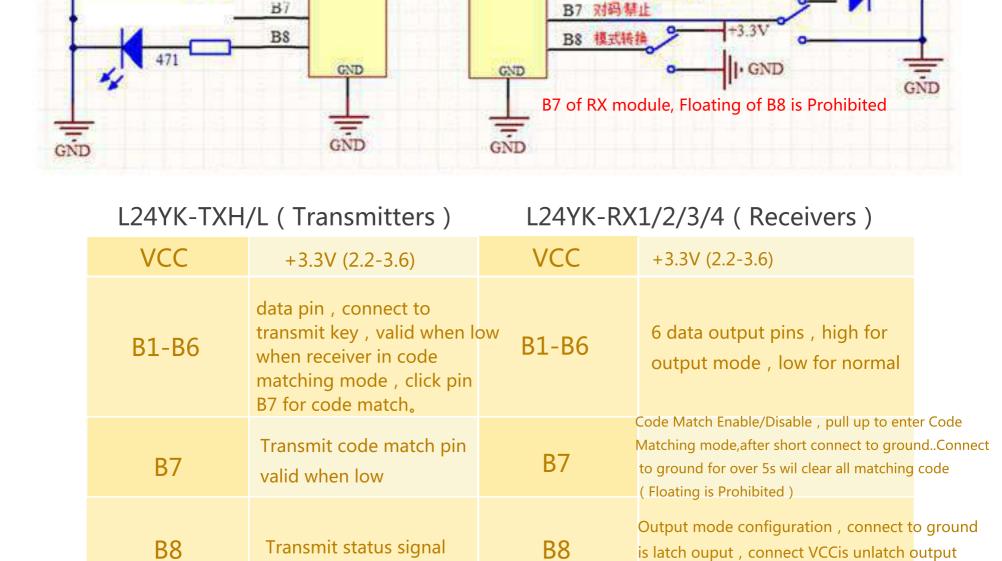
471

471

471

(Floating is Prohibited)

Ground



GND

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)

Under unlatch mode, keep pushing on the transmit key, output high level on receive end, quit pushing the transmit key makes it zero level on receive end Under latch mode, click the key one time, receive output high level and latch, click the

succeeded.

GND

Code Match:

key again, receive output change to low level One transmitter can match multi receivers at the same time, one receiver can match max 20 transmitters. Pull up pin B7 of receiver to prohibit code matching after code match

is required if use. Test:

Keep pull-down pin B7 of receiver over 5s, all saved code will be clear. Re-match code

if pin B1-B6 of receiver has output, LED light will be on. Distance is 120m in open space. Normal mode of transmitter is standby mode with low power

The controller can test valid distance after code matching succeed, push pin B1-B6 of transmitter,

L24YK-RX1/2/3 is designed for low power consumption, the low consumption is acchieved through sleep mode, it needs to wake up by pushing the transmit key for 1s. The module requires stable

power supply.

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.

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

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.

Certificate No. 1 CSG2015071401C-F We have eith confern the following designated product: MODEL NO-CRIXII, CIS. ARS, ARL ARS, CRIX. CRIX. H34A, H3V4F, RIVAD. CHY, HIVE, HIVE, MYK. (Product Identification) has been belief and found in compliance with the requirements of KT CFR PART 18 regulation \$ AND DOLA for the evaluation of the evaluation of Class S of electromagnetic competitivity. It is only valid in connection with the fest report number. USSECTSOFF49716.4 this covice complies with Part 15 of the PCC cules, operation is subject to the following two conditions: (1) This denice may not spoke harmful abirdenestic and (3) This device must accept any interference received, including interference that may cause ()dentification of regulation/standards; This declaration is the responsibility of the manufacture/importer Shenzhen City, Ling Cheng Xie Electronics Co., Etd. Brom 1109, Yong Hui business building Nungchang 1st industatial zone 37s. Shu road 2nd,Xi Xiang town, Baour District , Shendhen city ,China (Name / Address) MANUFACTURER / IMPORTER TEST LABORATORY samples of the product is in containing with the Date: Jul. 14 2015 ShenZhen USG Technology Co.,Ltd.

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FCC VERIFICATION OF CONFORMITY

