



SRF-5024T 2.4GHz RF Keyboard and USB Dongle Users Manual

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USERS MANUAL.DOC

SEJIN Part numbers to be applied

SRF-5024T	2.4GHz RF Keyboard with Track-ball Pointer, USB Dongle
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1 Revision History

REVISION				
ECN NO.	LTR	DESCRIPTION	DATE	REVISED BY
---	1.0	Initial generation	Mar 02,09	J.H,SHIM
	1.1	Regulatory information add	Mar 10,09	J.H.SHIM

2 Related documents

DOCUMENT #	DOCUMENT TITLE



3 Features

KEYBOARD

2.4GHz ISM band RF transceiver
Adaptive Frequency Hopping Spread spectrum
Internal antenna
250Kbps RF transmission rate
Integrated track-ball pointer and two mouse buttons
Full 86 keyboard Functionality with embedded numerical key pad
Full size key pitch (19.05mm, 0.750 inch) with a quiet tactile feel
Non-skid rubber feet
Inverted T cursor keypad
Separate Insert and Delete keys
Power: 3V DC (two AA batteries)
About three month of battery life (Based on Sejin standard operation conditions)
Effective operating range: 8 meters (26.2 ft)
Effective operating angle: 360 degrees
Number of keys : 86 keys
Key travel: 3.5 +/- 0.5 mm
Operating force: 60 +/- 20 gf
Dimensions: 410 x 202 x 42 mm (16.14 x 7.95 x 1.65 inch)
Agency approvals: N/A

USB DONGLE

Windows Me/98/2000/XP/Vista compatible (Optional MAC compatible)
2.4GHz ISM band RF transceiver
Adaptive Frequency Hopping Spread spectrum
Internal antenna
250Kbps RF transmission rate
Standard USB HID keyboard and mouse compatible
Bus powered full speed USB composite device
Battery low Indicator
Two color LED indicator for Connection status and for Battery low indication
Automatic generated 32767 User IDs

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Dimensions: 64 x 23 x 10 mm (2.5 x 0.9 x 0.4 inch)

Agency approvals: FCC, CE

4 Specifications

4.1 Radio Frequency specification

Band width: 2403.5Mhz~ 2479.9Mhz

Frequency tolerance: +/- 50PPM

Modulation method: MSK

Spread spectrum: Adaptive Frequency Hopping

Number of channels: 64 Channel

RF Power: No more than 10mW

Antenna type: Internal PCB Patch Antenna

Number of User ID: 32767

RF transmission rate: 250Kbps

4.2 Electrical specification

	USB Dongle	Keyboard
Operating voltage	4.2V~5.25V	1.8V~3.4V
Operating current	Max 100mA	Max 50mA
Operating temperature	0 ~ 40℃	0 ~ 40℃
Storage temperature	-40 ~ 60℃	-40 ~ 60℃
Operating humidity	0~90% non condensing	0~90% non condensing
Storage humidity	0~95% non condensing	0~95% non condensing



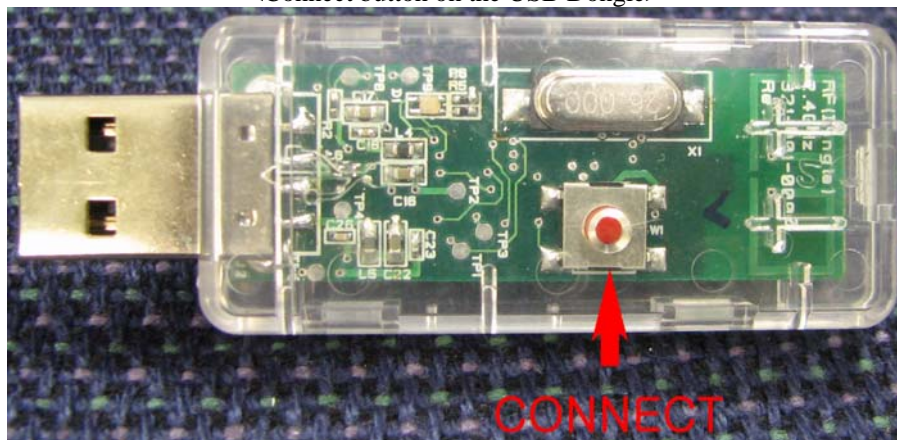
5 Keyboard Layout



6 Operation

6.1 Connecting Keyboard to the USB Dongle

<Connect button on the USB Dongle>



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1. Push the `Connect` button on the USB Dongle using an appropriate pin in shorten time(less than 2 second), the red colored indication LED will blink in every other second.
2. Remove the batteries from the keyboard and than press any key to discharge the remains voltage in the internal capacitors.
3. Reinstall two AA batteries to the keyboard in proper direction. In the time, the keyboard and the USB dongle tries to communicate and make a wireless connection. The connection will be done within two or three seconds. If the keyboard has connected successfully, the blinking of the red indication LED on the USB Dongle will stop. The connection statuses are stored internal non-volatile memory on both the USB dongle and the keyboard. If a keyboard already had been connected and another keyboard has connected the same USB Dongle, blinking of the red indication LED will not stop at the time but it will stop after 30 second from the operation. If two or more keyboards are connected in a USB Dongle, only one keyboard can be used in a same time.

Note: The connecting procedure must be done within 30 seconds, or the connecting process will be canceled automatically and the user will be required to try again from the step 1.

6.2 Disconnect all keyboards from the USB Dongle and connect a new keyboard

1. Push the `Connect` button on the USB Dongle using an appropriate pin and hold for about 3 second, the red LED will blink in every other second.
2. Do the keyboard connecting procedure from step 2.

7 Indication LED

7.1 Connecting status indication

Green LED indicates the connecting status and it blinks in every other seconds. The LED on and off duty ratio is variable depends on the keyboard connection status. If no keyboard has been connected, the LED ON time is 10% of cycle time. If a keyboard has been connected, the LED on time is 50% of cycle time.

7.2 Battery status indication

When the battery voltage on the keyboard is lowered, red indication LED on the USB dongle is blinked during the keyboard operation. In the case the user will be required to replace the batteries soon.



8 Regulatory Information

8.1 FCC

FCC ID: GJJSWK-8650RT

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) the device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications NOT explicitly APPROVED by SEJIN ELECTRON, INC could cause the product to cease to comply with FCC rules part 15, and thus void the user's authority to operate the equipment.

8.2 EC-R&TTE

This product is CE marked according to the provision of the R&TTE Directive(99/5/EC). Here by SEJIN ELECTRON, INC, declares that this product is in compliance with the essential requirement and other relevant provisions of Directive 1999/5/EC.