



APPENDIX 7

USER'S MANUAL

Production Name: 907MHz Wireless Keyboard

FCC WARNING:

This equipment generates or uses radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose authority to operate this equipment if an unauthorized change or modification is made.

CAUTION: Change or modifications not expressly approved by manufacturer responsible for Compliance could void the user's authority to operate the equipment.

1. General features

- Microsoft Windows 98/Me/2000/XP compatible
- USB Standard Base station: "A" type connector, Low speed(1.5Mbps)
- Full size key pitch with a quite tactile feel
- Battery life : 12 Months (assuming the user typed for 30 minutes each day)
- User ID support : Max 255 User' s ID * 3 Bytes Random codes (SEJIN ID Mode Support)
- Suspend mode : When not in use, the keyboard enter a suspend mode to reduce power consumption. Any key input return the keyboard to the active mode
- Operating Distance : 5meters(Min)
- Built-in 11 Hot keys.

2. RF Features

- **Radio Frequency in conformance with USA Radio Standards**
 - Operating Frequency : ISM(Industrial, Scientific, Medical) Band, 907MHz zone
 - Output Power : Less than 5mW
- **Safety Radio Transmission in a noise environment**
 - Super Heterodyne Demodulation
 - Narrow Band Operating (Frequency Modulation)
- **Secure Radio Transmission**
 - Max 255 User' s ID. (SEJIN ID Mode Support)
- **Antenna Type**
 - Keyboard : PCB Pattern antenna



Receiver : PCB Pattern antenna

3. User ID settings

3.1 Description

The user ID is stored into the internal serial EEPROM and the stored data is kept even though the system power down.

3.2 User ID setting procedure:

- 1) Insert batteries into the keyboard.
 - 2) Push the `Wakeup/ID set` button on the RF Base station and hold down for three seconds.
Power/Data indication LED will blink in every a second.
 - 3) Type ESC key with Left-Control, Left-Shift and Right-Shift key down combination.
The Power/Data indication LED will blink still.
 - 4) Input user ID number that is 1 to 255 with the numeric keys on the keyboard and than type Enter key.
After input the Enter key, the Power/Data indication LED will stop to blink.
 - 5) Once the user ID setting is done, the RF Base station automatically returns back its normal operation mode.
- * Note: Step 2 though step 4 must be done within 30 second. Otherwise, the RF base station will cancel the matrix ID setting procedure. In the case, the operator will have to retry from step 2. If a wrong key has typed, the keyboard will cancel the user ID setting procedure. In the case, if the Power/Data indication LED on the RF base station is still blinking, the operator will have to retry from step 3. Otherwise, the operator will have to retry from step 2.

4. Consumer control buttons

The SKR-1115F1(SRF-1209U90) has a built-in 13 hotkeys for 11 consumer control buttons and Sleep and Power off control button.

- Table for Consumer control buttons

Key Name	Description
MUTE	Mute
Vol +	Volume increase
Vol -	Volume decrease
Track +	Scan next track
Track -	Scan previous track
■ STOP	Stop

Key Name	Description
▶ / Play/Pause	Play / Pause
(Back)	Application Control Back
⊗ (Stop)	Application Control Stop
(Forward)	Application Control Forward
↻ (Refresh)	Application Control Refresh

4. Electrical Specification

- Power : 3V DC (2 'AA' batteries)
- Contact resistance : 500Ω min. per each key.
- Insulation resistance : 100 MΩ at DC 250 V
- Bounce : less than 10msec
- RF MODULE : 907MHz band
- Simultaneously working with the SEJIN standard remote
- Mouse data reporting rate : 60 packets / sec

5. Mechanical Specifications

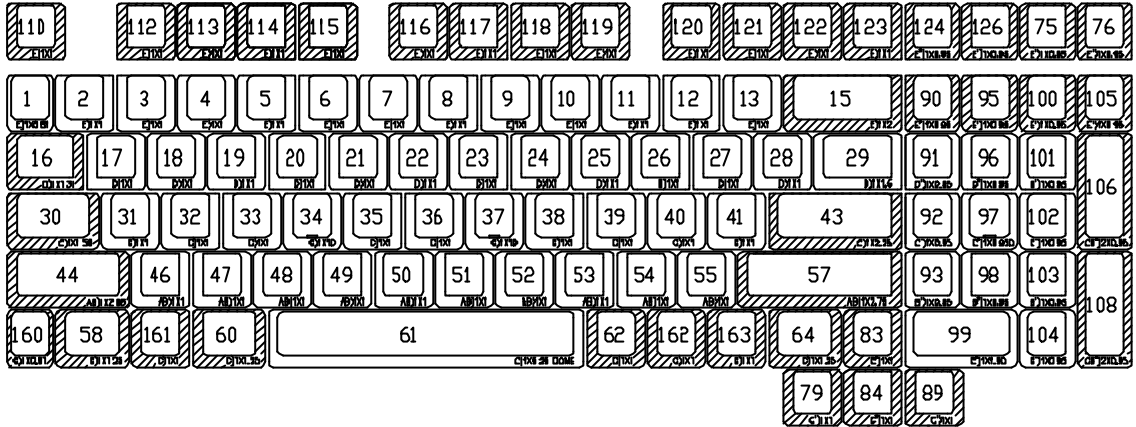
Keyswitch type	Membrane & rubber contact with Quiet tactile feel
Number of keys	US / Korean ver. : 100 keys, European ver. : 102 keys Japanese ver. : 104 keys
Functionality	Full 104 or 105,106, 109 keyboard for Windows
Key travel (Full stroke)	3.5 ± 0.5 mm
Operating force	55 ± 15 gf
Key pitch	Full size key pitch ; 19.05 mm(0.75 in)
Compatibility	PC/AT, USB and Microsoft Windows compatible
Dimension(L x W x H)	390 x 230 x 49 mm (15.35 x 9.05 x 1.93 in)

6. Environmental Characteristic

- Ambient temperature and Humidity (Operation)
 - Temperature : 0 ~ 50 °C
 - Humidity : 85% RH (without condensation)
- Ambient temperature and Humidity (Storage)
 - Temperature : -20 ~ 50 °C
 - Humidity : 95% RH (Storage)

7. Keyboard Matrix and RF code

7.1 Key Position Number(US version)



7.3 Keyboard Layout(US version)

