

2.4GHZ 2WAY RF DESKTOP SOLUTION (MULTI-MEDIA KEYBOARD EMITTER)

1. FEATURES

1.1. Common Features

- Support Microsoft® Windows 98; 2K; XP and VISTA keys
- Support 8 x 18 key scan matrix, up to 144 keys
 - 104 ~ 107 keys for standard keys of Windows OS
 - 3 ACPI key, 11 Multimedia keys, 7 Internet keys
 - 1 internet Navigation wheel (iNav), 2 navigation keys
 - 1 volume dial wheel
- Support battery low indicator with LED blinking
- 2 x AA battery cells for power supply
- External EEPROM (93LC46) used for Channel; ID and RF test memorizes
- Operating Frequency : 8MHz.

1.2. RF Features

- 2.4GHz GFSK with two-way "SunplusIT Frequency Protocol" coding with SPRF2400A RF transceiver
- High speed RF link data rate Max. 1M bit/s
- Frequency Table: 2402.0-2480.0MHz
- 24 bits ID number (16777216 combinations): allows the receiver to identify its Keyboard
- 1 connect (bind) button for RF link sync or Auto connect while Power on (batteries insert)
- Supports RF link and data transfer status with a LED blinking
- Transmission range : 7 ~ 15 meters

1.3. Power Management Feature

- Support 2.4GHz RF circuitry (or module) current in Power Down mode while left Normal mode.
- External RC wake-up for iNav and volume dial wheel scanning while MCU in sleep mode

- Support 3 stages of operate mode for smart battery power saving
 - Normal mode : when activity (keys-typing, buttons, iNav/ Volume wheel) is detected (under 6mA @3V)
 - Idle mode : when inactivity (keys-typing; buttons, iNav/volume dial event) after 3 Sec. (under 2mA @3V)
 - Sleep mode : Idle mode occurred after 10 Sec. entrance (under 50uA @3V)
- Support keyboard book on protection while key pressed continuing over 60 Sec.

1.4. Package

- LQFP 48-pins
- Chip form available..

FCC STATEMENT

1. 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) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the nterference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

2. BLOCK DIAGRAM

