

PHILIPS ELECTRONICS SINGAPORE PTE LTD
FCC ID: RCSR7500
OPERATIONAL DESCRIPTION

1. DESCRIPTION:

The SRM7500 is a 2way RF interactive remote control, which consist of 48 keys, allowing the user to control both his/her A/V equipment in a traditional way as well as navigating through music files, stored on the PC. The SRM7500 is full Microsoft Windows XP MCE compatible and certified.

It can transmit in Infra-Red(IR) or Radio Frequency(RF) by sequence of button setup. There is a RF module interface with the main circuit. It is a DSSS modulation type.

This remote control is a portable device designed to work with the PC. It is a universal remote control that can program other devices like TV or DVD.

3xAA Alkaline batteries can last for approximately 3 months for normal usage.

There is a Low Voltage Detection in place, whenever the battery voltage drops to 3.8V, the low battery icon will be shown on the LCD screen to indicate to the user that the battery level is low.

2. FUNCTION:

Pressing any button on the remote activates the Philips remote control SRM7500/37 RF. The code will be transmitted within a second after key pressed. Transmission ceases immediately after key released.

When there isn't any key pressed, the microprocessor goes into sleep and wakes up upon key pressed. It transmits either IR or RF depends on the setting. It will not transmit IR and RF together.

In RF mode, basically, the main microprocessor sends an enable signal to enable the RF module and follow by data signal in envelope form.

There are 6 states defined for the SRM7500:

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|----|------------------|---|
| 1. | Idle state | State of the RC when not in use |
| 2. | 1-way state | Normal use of RC with A/V devices. RC transmits IR when active key is pressed. |
| 3. | 2-way state | Normal use of RC for content control in 2-way RF, stored on a server. Limited set of keys is used to control the server. |
| 4. | Setup state | State of the RC in which user can change settings of the remote control. RC does not transmit IR in this state. |
| 5. | Service state | Part of Setup state that is only used by Helpdesk personnel. Access of this mode is not communicated in IFU. |
| 6. | Dark Setup state | Part of the Setup state: If user does not operate the remote for T1, the display turns off, but the processor keeps running in the background during T2. Any key press will turn on the display + backlight again and shows the same screen as the user left the device in. |

T1= user definable: 3, 5, 10 and 15 seconds
T2 = 15 min.

3. SPECIFICATION

For IR mode, the carrier is 36KHz for the set-top box.

For RF mode, the oscillation frequency is between 2400 – 2483.5MHz.

Operating Voltage is 3.3V to 4.8V.

Visual Indicator: LCD screen

Low Voltage Detection: 3.8V.

Modulation Type: DSSS