

## 1. operational description

SOC1S05 is a Bluetooth GPS (Global positioning system) receiver.

This device receives positioning data from satellite and sends the data to computing device through Wireless Bluetooth connection. It uses 2.4GHz ISM band for the Bluetooth connection.

This device is mainly for Navigation system, and can be used as handheld navigation system when walking. It is also used as survey land, voyage and flying.

Navigation software will use the position data from this device and show and navigate the road. Or simple software can show simple data like Latitude, Longitude and Altitude etc.

This can work with any Bluetooth enabled device PDAs(personal digital assistants), Smart phones, laptop computers and tablet PCs.

The product is for portable wireless navigation system, therefore it uses Lithium-ion rechargeable battery. The capacity of battery is 1100mA and chargeable with AC adapter(Input 110~240V, Output DC5V 1A). The power consumption of this device is maximum 100mA(during GPS signal reception) that it last more than 11 hours. This can be charged as driving or in the house. For the portable uses, it also make the battery replaceable.

The three different color LED light indicate Bluetooth connection status, GPS status and Battery status for the convenient use.

The small size and wireless feature make it possible to put this device in the pocket or on the dashboard of cars so that navigate without many cables and wires

## 2. Electrical description

| Type               | Transmitter                           | Receiver                              |
|--------------------|---------------------------------------|---------------------------------------|
| FCC Classification | FHSS Sequence Spread Spectrum ( FHSS) | FHSS Sequence Spread Spectrum ( FHSS) |
| Frequency Range    | 2402 – 2480 MHz                       | 2402 – 2480 MHz                       |
| Number of Channels | 79                                    | 79                                    |
| Channel Separation | 1MHz                                  | 1MHz                                  |
| Type of Antenna    | Chip Antenna                          | Chip Antenna                          |
| Power Supply       | DC 3.7 V Lithum Polymer Battery       | DC 3.7 V Lithum Polymer Battery       |