

# Operation Principle

## Multi-function GPS Portable Navigation Device

1. FM
  - a. Frequency Range : 88.1MHz ~ 107.9MHz
  - b. MCU control IIC to set FM frequency
  - c. 7.6MHz crystal
  - d. Power supply:3.3V
  - e. FM antenna is Built-in antenna(Gain=-3dBi)
2. BT function
  - a. BC04 ROM
  - b. MCU configure BC04 by UART
  - c. Frequency: 2402MHz~2480MHz
  - d. 14.31818MHz crystal
  - e. Power supply:3.3V
  - f. Built-in antenna
3. GPS
  - a. Frequency : 1575.42MHz
  - b. MCU control SPI to configure GPS analog receive IC
  - c. 12MHz , 32.708KHz crystal
  - d. Power supply:3.3V
  - e. Built-in ceramic antenna
4. Rear-View
  - a. AVIN
  - b. CVBS display mode
  - c. Power supply:3.3V and 1.8V