

# Operation Principle

## Multi-function GPS Portable Navigation Device-PF86-5001

1. BlueTooth
  - a. RoadTunes ROM
  - b. Communication interface: UART
  - c. Frequency: 2.4GHz ISM band
  - d. 24MHz crystal
  - e. Power supply:3.3V
  - f. Built-in high-performance 2.4GHz chip antennas.
2. GPS
  - a. 64-channel GPS baseband with hardware match filter
  - b. Operating Frequency: 1575.42MHz
  - c. 16.367667MHz/+/-0.5PPM crystal
  - d. Power supply:3.3V
  - e. Built-in passive ceramic antenna
3. FM Transmit
  - a. 88.1MHz to 107.9MHz full band tuning in
  - b. 50/100/200 kHz step sizes
  - c. 50/75us pre-emphasis
  - d. I2C interface
  - e. Power supply:3.3V