

OPERATIONAL DESCRIPTION

1. Product Basic Information

Product Name:	WorldPenScan Go
Model No:	MSE07, MSE09
Test Model No:	MSE07
Trade Mark:	PenPower
Sample Type:	Portable product
Power Supply:	lithium battery:DC3.8V 1050mAh, Charge by DC5.0V

2. BLE Information

Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Number of Channels:	40 Channels
Bluetooth Version:	V4.0
Hardware version:	RK3326
Software version:	X2V-VT-E02-V1.1
Antenna Type:	Shrapnel antenna
Antenna gain:	1.04dBi
Rated power:	5.27mW

3. Bluetooth Classic Information

Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, ($\pi/4$)DQPSK, 8DPSK
Number of Channels:	79 Channels
Channel Separation:	1 MHz
Dwell Time:	Per channel is less than 0.4s.
Bluetooth Version:	V5.0
Hardware Version:	RK3326
Software Version:	X2V-VT-E02-V1.1
Antenna Type:	Shrapnel antenna
Antenna Gain:	1.04dBi
Rated power:	0.051mW/MHz

4. 2.4G WIFI Information

Operating Frequency:	IEEE 802.11b: 2412MHz to 2472MHz IEEE 802.11g/n(HT20): 2412 MHz to 2472 MHz
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n (HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)
Transmit Data Rate:	802.11b: 1M/2M/5.5M/11M bps 802.11g: 6M/9M/12M/18M/24M/36M/48M/54M bps 802.11n: 6.5M/13M/19.5M/26M/39M/52M/58.5M/64M bps
Number of Channels:	802.11b: 13 Channels 802.11g/n (HT20): 13 Channels
Channel Separation:	5 MHz
Antenna Type:	Shrapnel antenna
Antenna Gain:	1.04dBi
The Max. Antenna Power:	802.11b: 0.48mW/MHz, 802.11g: 0.85mW/MHz, 802.11n (HT20): 0.52mW/MHz

1. The is a 2.4 GHz Bluetooth & WIFI device.
2. The chip AW-NM372SM acts as BT&WIFI module, the crystal oscillator is 26MHz
3. The chip RK3326 acts as CPU, the crystal oscillator is 24MHz
4. The chip RK817 acts as power-management, the crystal oscillator is 32.768kHz
5. For more information, please refer to the user manual.