

Specification for WM06 MobiGo

Operating Frequency Band (RF):

GSM850:824-849 MHz(TX),869-894 MHz(RX)

EGSM900:880.0–915.0MHz(TX),925.0–960.0MHz(RX)

DCS 1800:1710.0–1785.0MHz (TX),1805.0–1880.0 MHz (RX)

PCS 1900:1850.0–1910.0MHz (TX),1930.0–1990.0MHz (RX)

WCDMA BAND1:1920-1980MHz (TX),2110-2170MHz (RX)

WCDMA BAND8:880-915MHz (TX),925-960MHz (RX)

Bluetooth:2402-2480MHz (TX/RX)

WIFI:2412-2472MHz (TX/RX)

4900-5925MHz(TX/RX)

GPS:1575.42MHz

NFC:13.56MHz

Modulation mode:

GMSK (GSM850/GSM900/DCS/PCS)

WCDMA Uplink: BPSK/QPSK/16QAM; WCDMA Downlink: BPSK/QPSK /16QAM/64QAM

GFSK/ $\pi/4$ -DQPSK/ 8-DPSK (Bluetooth)

BPSK/QPSK/16QAM/64QAM/DSSS/OFDM/ CCK (WIFI b/g/n)

BPSK/QPSK (GPS)

Category:

HSDPA:Cat14-21Mbps

HSUPA:Cat6-5.76Mbps

Power Class

GSM850/GSM 900: Class4

DCS1800/PCS1900: Class1

WCDMA B1/B8: Class3

Max. Of Transmit power:

GSM850: PCL = 5, PWR = 32.5dbm \pm 0.5dBm

GSM900: PCL = 5, PWR = 32.5dbm \pm 0.5dBm

DCS1800: PCL = 0, PWR = 29.5dbm \pm 0.5Bm

PCS1900: PCL = 0, PWR = 29.5dbm \pm 0.5dBm

WCDMA2100: PWR =22.5 \pm 0.5 dBm

WCDMA900: PWR = 22.5 \pm 0.5 dBb

Bluetooth:4dBm \pm -1dBm (BT3.0 test)

BLE:4dbm \pm -1dbm (BT4.0 Test)

Wi-Fi:

802.11 b: 15 ± 1 dBm;
 802.11 g: 12 ± 1 dBm;
 802.11 n(20): 11 ± 1 dBm;
 802.11 n(40): 11 ± 1 dBm;
 GPS: no TX

DC Voltage and DC Currents into Power Amplifier:

The DC voltage range applied to power amplifier is 3.6V-4.35V. The DC current into power amplifier(Max) can be list as follow:

GSM850(PCL=5): 250mA
 GSM900(PCL=5): 250mA
 DCS1800(PCL=0): 200mA
 PCS1900(PCL=0): 200mA
 WCDMA 2100: 600mA
 WCDMA 900: 500mA

Antenna Type: (Internal Antenna)

GSM/WCDMA: PIFA

GPS: PIFA

WIFI/BT: PIFA

Maximum of Antenna's Gain:

GSM 850:-0.5dBi
 EGSM 900:-0.5dBi
 DCS 1800: 0dBi
 PCS 1900:-0.5
 WCDMA900: -0.5dbi
 WCDMA2100: 1dbi
 Wi-Fi:1.5dBi
 Bluetooth:1.5dBi

simultaneous transmission modes:

Air-Interface	Band (MHz)	Type	Simultaneous Transmissions Note: Not to be tested	Reduced power 20.19(c)(1)	Voice Over Digital Transport (Data)
GSM	900	VO	Yes WIFI and BT	NA	NA
	1800	VO		NO	NA
	GPRS	DT	Yes WIFI and BT	NA	NA
WCDMA	B1	VO	Yes WIFI and BT	NA	NA

	B8	VO	Yes WIFI and BT	NA	NA
	HSDPA/HSUP A/RMC/HSPA+	DT	Yes WIFI and BT	NA	NA
WIFI	2450	DT	Yes GSM, BT	NA	Yes
Bluetooth (BT)	2400	DT	Yes GSM,GPRS, WIFI	NA	NA

GPRS:

Test Mode: B

Class :12 upload support 4 channels , download support 4 channels

maximum output power reduction in a multislot configuration :

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power, (dB)
1	0
2	-1
3	-3
4	-4

HSDPA&HSUPA&HSPA+

Uplink:Cat6,throughput up to 5.76Mbps

Downlink:Cat14,throughput up to 21Mbps

Feature:

BT 3.0、4.0(BLE)

Wi-Fi 802.11b/g/n (no 802.11ac)

GPS's Tracking Sensitivity:-158dbm

GPS's Acquisition Sensitivity:-146dbm

GPS's CNR:40db/Hz (-130dBm)

GSMK (only GPRS,no Speech)

GSM channel

GSM850: 128-251

EGSM900: 975-124

DCS:512-885

PCS:512-810

WCDMA B1: 9612-9888(TX);10562-10838(RX)

WCDMA B8: 2712-2863(TX);2937-3088(RX)

Channel spacing:

GSM/WCDMA:0.2MHz

BT:1MHz ;

WIFI:5MHz

BLE:2MHz

Channel numbers:

GSM850 :124

GSM900 :173

DCS1800 :374

PCS1900 :299

WCDMA BAND1: 277

WCDMA BAND8 :152

Operating temperature: -20~60°C

Charging temperature: Charging 0~60°C; Discharging -20~50°C

Battery technical: Li-poly

Low Voltage: 3.6V

Nominal Voltage: 3.8V

High Voltage: 4.35V

Charge Restriction Voltage: 5V

Rated Capacity: 1750mAh

Battery low voltage: 3.6V

Operating Relativity Humidity Range: \cong 75%