

Antenna specification

1. Antenna location drawing

See the following documents:

- [HZ_06_\(FCC\)_Antenna Drawing_\(ALL\)_APYHRO00336.pdf](#)

2. Working principle of multiple antennas 2.1 Antenna

Diversity: None.

2.2 Power Mode: None.

1. Maximum antenna

gain WWAN antenna:

Band	Tx
GSM 850	-2.9 dBi
GSM 900 *	-2.1 dBi
GSM 1800 *	-2.5 dBi
GSM 1900	-1.9 dBi
B1 (WCDMA/LTE) *	-1.7 dBi
B2 (WCDMA/LTE)	-1.9 dBi
B3 (LTE) *	-2.5 dBi
B4 (WCDMA/LTE)	-2.5 dBi
B5 (WCDMA/LTE)	-2.9 dBi
B7 (LTE) *	-1.7 dBi
B8 (WCDMA/LTE) *	-2.1 dBi
B11 (LTE) *	-4.0 dBi
B12 (LTE)	-3.1 dBi
B13 (LTE)	-2.5 dBi
B17 (LTE)	-3.1 dBi
B18 (LTE) *	-3.8 dBi
B19 (LTE) *	-2.9 dBi
B20 (LTE) *	-2.9 dBi
B21 (LTE) *	-3.9 dBi
B28 (LTE)	-2.8 dBi
B38 (LTE)	-2.2 dBi
B39 (LTE) *	-1.7 dBi
B40 (LTE) *	-1.6 dBi
B41 (LTE)	-1.7 dBi
B42 (LTE) *	0.8 dBi
B66(LTE)	-2.5 dBi

Band	Tx
n1 *	-1.7 dBi
n3 *	-2.5 dBi
n5	-2.9 dBi
n7 *	-1.7 dBi
n8 *	-2.1 dBi
n28 *	-2.8 dBi
n38	-2.2 dBi
n40 *	-1.6 dBi
n41	-1.7 dBi
n66	-2.5 dBi
n77 *	1.5 dBi
n78 *	0.8 dBi
n79 *	2.3 dBi

* : Bands with this mark are do not operate in USA

WLAN antenna:

Band (MHz)	ANT4	ANT8
2412-2472	-3.2 dBi	0.4 dBi
5150-5250	-2.9 dBi	-0.6 dBi
5250-5350	-1.8 dBi	-0.7 dBi
5470-5725	-2.0 dBi	-4.5 dBi
5725-5850	-0.5 dBi	-4.6 dBi

Bluetooth antenna:

Band (MHz)	ANT4	ANT8
2402-2480	-3.2 dBi	0.4 dBi

2. Maximum beamforming gain

Don' t use beamforming technology.

3. The state of antenna simultaneous transmission

See the following documents :

- [H_02_\(FCC\) Simultaneous Tx Combination List APYHRO00336 _★V2 .pdf](#)

Note : WiFi 2.4GHz and BT are time-division exclusive control, so they will not operate at the same time.

4.Type of antenna

All antenna: PIFA