

# Antenna specification

## 1. Antenna location drawing

See the following documents:

- 10\_Operatioal Description\_Antenna Drawing\_APYHRO00330.pdf

## 2. Working principle of multiple antennas

2.1 Antenna Diversity: None.

2.2 Power Mode: None.

## 3. Maximum antenna gain

WWAN antenna:

Band	Tx
GSM 850	-5.1dBi
GSM 1900	-4.6dBi
B2 (WCDMA/LTE)	-4.6dBi
B4 (WCDMA/LTE)	-4.5dBi
B5 (WCDMA/LTE)	-5.1dBi
B12 (LTE)	-7.6dBi
B13 (LTE)	-4.3dBi
B17 (LTE)	-7.6dBi
B38 (LTE)	-1.6dBi
B41 (LTE)	-1.6dBi

WLAN antenna:

Band (MHz)	ANT4	ANT8
2412-2472	-2.8dBi	-1.4dBi
5150-5250	-3.3dBi	-2.1dBi
5250-5350	-3.0dBi	-2.0dBi
5470-5725	-3.1dBi	-2.7dBi
5725-5850	-3.0dBi	-2.4dBi

Bluetooth antenna:

Band (MHz)	ANT4	ANT8
2402-2480	-2.8dBi	-1.4dBi

#### 4. Maximum beamforming gain

Don' t use beamforming technology.

#### 5. The state of antenna simultaneous transmission

See the following documents :

- 16\_Simultaneous\_Tx\_Combination\_List\_APYHRO00330.pdf

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

#### 6.Type of antenna

All antenna: PIFA