

## Antenna gain information

### WIFI 2.4GHz Antenna

Antenna 0: 3.74dBi

Antenna 1: 3.88dBi

WIFI MIMO: 3.81dBi

### LTE Antenna

LTE Band 5: 2.5dBi

LTE Band 41: 2.4dBi

### GSM Antenna

PCS1900: 4.5dBi

According to 662911 D01 Multiple Transmitter Output v02r01

all transmit signals are completely uncorrelated,

HH40L2 support ,STBC

Not support CDD/beamforming

Ant1:WIFI Antenna on board gain: 3.88dBi

Ant2: 2.4G WIFI PCB Antenna gain:3.74dBi

STBC:

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{3.88/10} + 10^{3.74/10})/2] \text{ dBi} \\ &\approx 3.81 \text{ dBi}\end{aligned}$$