

## Overview data of evaluation

Antenna	TYPE	SIZE
UP Antenna	FPC	73.4x10.6mm
Down Antenna	FPC	1.85x31mm
GPS/BT/2.4G WIFI Antennae	FPC	22.35x6mm
5G WIFI Antenna	FPC	7.5x7.8mm
NFC Antenna	FPC	35x32mm

### UP Antenna

Band	Gain average(dBi)	Gain Peak (dBi)
GSM 900/UMTS B8/LTE B8	-7.9	-3.3
GSM 850/UMTS B5/LTE B5/B20	-7.3	-3.8
LTE B13/28	-7.2	-3.4
LTE B12/17	-6.4	-2.6
GSM1800/B3	-8.1	-5.2
GSM1900/UMTS B2/LTE B2	-7.9	-5
UMTS B1/LTE B1/4/66	-5.3	-0.6
LTE B40	-7.7	-3.8
LTE B7/38/41	-6.7	-3

### Down Antenna

Band	Gain average(dBi)	Gain Peak (dBi)
GSM 900/UMTS B8/LTE B8	-9.9	-6
GSM 850/UMTS B5/LTE B5/B20	-10.4	-6.7
LTE B13/28	-9.9	-6.2
LTE B12/17	-10.2	-6.3
GSM1800/B3	-3.8	0.3
GSM1900/UMTS B2/LTE B2	-4.1	0.3
UMTS B1/LTE B1	-6.2	-1.6
UMTS B4 /LTE B4/66	-6.1	-1.7
LTE B40	-3.7	1.5

LTE B7/38/41	-4.6	-1.7
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**GPS/2.4G WIFI Antennae**

Band	Gain average(dBi)	Gain Peak (dBi)
GPS	-5.3	-1
2.4G WIFI	-5.1	-1.5
BT	-5.1	-1.5

**5G WIFI Antennae**

Band	Gain average(dBi)	Gain Peak (dBi)
5G WIFI	-5.6	1.5

**NFC Antennae**

Band	Gain average(dBi)	Gain Peak (dBi)
13.56Mhz	-2	0

