

Cellular Antenna Gains

Model(s): A3212, A3408, A3409, A3410

1. Cellular: **Antenna 1**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B1	-1.9
B2, B25, GSM1900, BC1, WCDMA2	-2.0
B3, B66	-0.4
B4, WCDMA 4	-1.1
B5, B26, GSM850, BC0, BC10, WCDMA 5	-4.5
B7	-2.6
B8	-5.6
B13, B14	-4.8
B17, B12	-4.9
B20	-4.3
B28	-4.8
B30	-3.0
B34	-3.5
B38	-3.2
B39	-2.4
B40	-1.8
B41	-2.5
B53	-2.4
n70	-1.8
B71	-5.0
L-Band	-1.6

2. Cellular: **Antenna 2**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B1	-0.3
B2, B25, GSM1900, BC1, WCDMA2	-1.1
B3, B66	-2.8
B4, WCDMA 4	-2.3
B5, B26, GSM850, BC0, BC10, WCDMA 5	-4.9
B7	-2.8
B8	-4.8
B13, B14	-5.0
B17, B12	-6.5
B20	-4.8
B28	-5.3
B30	-2.7
B34	-0.6
B38	-3.8
B39	-1.9
B40	-2.0
B41	-3.5

Band	Peak Gain (Horizontal/Vertical) (dBi)
B53	-3.1
n70	-2.8
B71	-6.5

3. Cellular: **Antenna 3**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B1	0.0
B2, B25, GSM1900, BC1, WCDMA2	0.4
B3, B66	0.1
B4, WCDMA 4	-0.7
B7	-1.3
B30	-1.5
B34	-0.1
B38	-1.2
B39	0.0
B40	-0.7
B41	-0.9
n70	-1.3

4. Cellular: **Antenna 4**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B1	-1.9
B2, B25, GSM1900, BC1, WCDMA2	-2.2
B3, B66	-1.8
B4, WCDMA 4	-1.5
B7	-1.7
B30	-0.9
B34	-1.6
B38	-2.8
B39	-2.8
B40	-0.3
B41	-2.6
B42	-2.3
B48 (L Channel)	-2.6
B48 (M Channel)	-3.4
B48 (H Channel)	-4.4
n70	-2.1
n77	-1.1
n77 (Sub 1: 3450 - 3550 MHz) - FCC	-1.5
n77 (Sub 2: 3700 - 3980 MHz) - FCC	-4.1
n77 (3450 - 3900 MHz) - Canada	-1.5
n77 (3900 - 3980 MHz) - Canada	-4.1
n78	-1.2
n78 (3450 - 3800 MHz) - Canada	-1.6
n79	-5.8
L-Band	-0.8

5. Cellular: **Antenna 7**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B42	-1.3
B48 (L Channel)	-3.7
B48 (M Channel)	-3.2
B48 (H Channel)	-5.1
n77	-1.2
n77 (Sub 1: 3450 - 3550 MHz) - FCC	-2.6
n77 (Sub 2: 3700 - 3980 MHz) - FCC	-5.0
n77 (3450 - 3900 MHz) - Canada	-2.6
n77 (3900 - 3980 MHz) - Canada	-5.4
n78	-0.9
n78 (3450 - 3800 MHz) - Canada	-3.0
n79	-2.8

6. Cellular: **Antenna 8**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B42	-4.4
B48 (L Channel)	-4.7
B48 (M Channel)	-4.5
B48 (H Channel)	-4.2
n77	-3.0
n77 (Sub 1: 3450 - 3550 MHz) - FCC	-5.4
n77 (Sub 2: 3700 - 3980 MHz) - FCC	-3.0
n77 (3450 - 3900 MHz) - Canada	-3.6
n77 (3900 - 3980 MHz) - Canada	-3.0
n78	-2.5
n78 (3450 - 3800 MHz) - Canada	-2.5
n79	-2.0

7. Cellular: **Antenna 9**, Type: IFA

Band	Peak Gain (Horizontal/Vertical) (dBi)
B42	-0.5
B48 (L Channel)	-1.3
B48 (M Channel)	-0.5
B48 (H Channel)	-0.1
n77	0.0
n77 (Sub 1: 3450 - 3550 MHz) - FCC	-0.3
n77 (Sub 2: 3700 - 3980 MHz) - FCC	0.0
n77 (3450 - 3900 MHz) - Canada	0.0
n77 (3900 - 3980 MHz) - Canada	-2.5
n78	-0.1
n78 (3450 - 3800 MHz) - Canada	-0.1
n79	-2.0