



SHENZHEN HUAAPTEC CO., LTD
 Add.: 5th FL, E B10G, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

8/3/2018

Subject: Antenna Kitting

The antenna kitting options for signal booster were done for 58 Outdoor Antenna kit options, 8 Outdoor Antenna kit options for Mobile Installation, 50 Outdoor Antenna kit options for Fixed Installation. Indoor Antenna is integrated into the signal booster. The order of the attached calculations is as follows:

Outdoor Antenna Kit Options for Mobile Installations		
1. Kit numbers:5-10400	4. Kit numbers:5-30400	7. Kit numbers:5-30200
2. Kit numbers:5-75400	5. Kit numbers:5-50300	8. Kit numbers:5-01174
3. Kit numbers:5-50400	6. Kit numbers:5-30300	

Outdoor Antenna Kit Options for Fixed Installations		
1. Kit numbers: 11-100400	18. Kit numbers:10-50300	35. Kit numbers:9-30400
2. Kit numbers: 11-75400	19. Kit numbers:10-30300	36. Kit numbers:9-100300
3. Kit numbers: 11-50400	20. Kit numbers:10-50200	37. Kit numbers:9-75300
4. Kit numbers: 11-30400	21. Kit numbers:10-30200	38. Kit numbers:9-50300
5. Kit numbers: 11-100300	22. Kit numbers:10-100400	39. Kit numbers:9-30300
6. Kit numbers: 11-75300	23. Kit numbers:10-75400	40. Kit numbers:9-50200
7. Kit numbers: 11-50300	24. Kit numbers:10-50400	41. Kit numbers:9-30200
8. Kit numbers: 11-30300	25. Kit numbers:10-30400	42. Kit numbers:7-100400
9. Kit numbers: 11-75200	26. Kit numbers:10-100300	43. Kit numbers:7-75400
10. Kit numbers: 11-50200	27. Kit numbers:10-75300	44. Kit numbers:7-50400
11. Kit numbers: 11-30200	28. Kit numbers:10-50300	45. Kit numbers:7-30400
12. Kit numbers:10-100400	29. Kit numbers:10-30300	46. Kit numbers:7-75300
13. Kit numbers:10-75400	30. Kit numbers:10-50200	47. Kit numbers:7-50300
14. Kit numbers:10-50400	31. Kit numbers:10-30200	48. Kit numbers:7-30300
15. Kit numbers:10-30400	32. Kit numbers:9-100400	49. Kit numbers:7-50200
16. Kit numbers:10-100300	33. Kit numbers:9-75400	50. Kit numbers:7-30200
17. Kit numbers:10-75300	34. Kit numbers:9-50400	



SHENZHEN HUAPTEC CO., LTD
 Add.:5th FL, E BIOG, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

Outdoor Antenna kit Options for Mobile Installations

Final Output Power Limited to 30 dBm EIRP in all Frequency Bands

Uplink Frequency(MHz)	698-716	776-787	824-849	1710-1755	1850-1915
Uplink Output Power(dBm)	19.3	17.5	19.1	17.9	18.9

1. Omni Directional Antenna with 100' 400 Kit numbers:5-10400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	1	1	1	-1	-1
Final Output Power (dBm EIRP)	20.3	18.5	20.1	16.9	17.9

2. Omni Directional Antenna with 75' 400 Kit numbers:5-75400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	2	2	2	0.5	0.5
Final Output Power (dBm EIRP)	21.3	19.5	21.1	18.4	19.4

3. Omni Directional Antenna with 50' 400 Kit numbers:5-50400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	3	3	3	2	2
Final Output Power (dBm EIRP)	22.3	20.5	22.1	19.9	20.9

4. Omni Directional Antenna with 30' 400 Kit numbers:5-30400

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	3.8	3.8	3.8	3.2	3.2
Final Output Power (dBm EIRP)	23.1	21.3	22.9	21.1	22.1

5. Omni Directional Antenna with 50' 300 Kit numbers:5-50300

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	2	2	2	0.4	0.4
Final Output Power (dBm EIRP)	21.3	19.5	21.1	18.3	19.3

6. Omni Directional Antenna with 30' 300 Kit numbers:5-30300

Antenna Gain (dBi)	5	5	5	5	5
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	3.2	3.2	3.2	2.2	2.2
Final Output Power (dBm EIRP)	22.5	20.7	22.3	20.1	21.1



SHENZHEN HUAAPTEC CO., LTD
 Add.:5th FL, E BIOG, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

7. Omni Directional Antenna with 30' 200

Kit numbers:5-30200

Antenna Gain (dBi)	5.0	5.0	5.0	5.0	5.0
Coax Cable Loss (dB)	3.0	3.0	4.3	4.5	4.5
Final Gain Less Loss (dB)	2.0	2.0	0.7	0.5	0.5
Final Output Power (dBm EIRP)	21.3	19.5	19.8	18.4	19.4

8. Magnet Antenna with 10' RG174 SMB female

Kit numbers:5-01174

Antenna Gain (dBi)	3	3	3	5	5
Coax Cable Loss (dB)	2.4	2.4	3	3.6	3.8
Final Gain Less Loss (dB)	0.6	0.6	0	1.4	1.2
Final Output Power (dBm EIRP)	19.9	18.1	19.1	19.3	20.1

Outdoor Antenna kit Options for Fixed Installations

Final Output Power Limited to 30 dBm EIRP in all Frequency Bands

Uplink Frequency(MHz)	698-716	776-787	824-849	1710-1755	1850-1915
Uplink Output Power(dBm)	19.3	17.5	19.1	17.9	18.9

1. Wide Band Directional Antenna 11dbi Antenna with 100' 400

Kit numbers: 11-100400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	6	6	6	5	5
Final Output Power (dBm EIRP)	25.3	23.5	25.1	22.9	23.9

2. Wide Band Directional Antenna 11dbi Antenna with 75' 400

Kit numbers: 11-75400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	7	7	7	6.5	6.5
Final Output Power (dBm EIRP)	26.3	24.5	26.1	24.4	25.4

3. Wide Band Directional Antenna 11dbi Antenna with 50' 400

Kit numbers: 11-50400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	8	8	8	8	8
Final Output Power (dBm EIRP)	27.3	25.5	27.1	25.9	26.9



SHENZHEN HUAPTEC CO., LTD
 Add.:5th FL, E BIOG, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

4. Wide Band Directional Antenna 11dbi Antenna with 30' 400 Kit numbers: 11-30400

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	8.8	8.8	8.8	9.2	9.2
Final Output Power (dBm EIRP)	28.1	26.3	27.9	27.1	28.1

5. Wide Band Directional Antenna 11dbi Antenna with 100' 300 Kit numbers: 11-100300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	4	4	4	1.8	1.8
Final Output Power (dBm EIRP)	23.3	21.5	23.1	19.7	20.7

6. Wide Band Directional Antenna 11dbi Antenna with 75' 300 Kit numbers: 11-75300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	5.5	5.5	5.5	4	4
Final Output Power (dBm EIRP)	24.8	23	24.6	21.9	22.9

7. Wide Band Directional Antenna 11dbi Antenna with 50' 300 Kit numbers: 11-50300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	7	7	7	6.4	6.4
Final Output Power (dBm EIRP)	26.3	24.5	26.1	24.3	25.3

8. Wide Band Directional Antenna 11dbi Antenna with 30' 300 Kit numbers: 11-30300

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	8.2	8.2	8.2	8.2	8.2
Final Output Power (dBm EIRP)	27.5	25.7	27.3	26.1	27.1

9. Wide Band Directional Antenna 11dbi Antenna with 75' 200 Kit numbers: 11-75200

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	7.5	7.5	10.7	11.3	11.3
Final Gain Less Loss (dB)	2.5	2.5	-0.7	-0.3	-0.3
Final Output Power (dBm EIRP)	21.8	20.0	18.4	17.6	18.6

10. Wide Band Directional Antenna 11dbi Antenna with 50' 200 Kit numbers: 11-50200

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	5.0	5.0	7.1	7.5	7.5
Final Gain Less Loss (dB)	5.0	5.0	2.9	3.5	3.5
Final Output Power (dBm EIRP)	24.3	22.5	22.0	21.4	22.4



SHENZHEN HUAPTEC CO., LTD
 Add.:5th FL, E BIOG, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

11. Wide Band Directional Antenna 11dbi Antenna with 30' 200 Kit numbers: 11-30200

Antenna Gain (dBi)	10	10	10	11	11
Coax Cable Loss (dB)	3.0	3.0	4.3	4.5	4.5
Final Gain Less Loss (dB)	7.0	7.0	5.7	6.5	6.5
Final Output Power (dBm EIRP)	26.3	24.5	24.8	24.4	25.4

12. Panel Antenna with 100' 400 Kit numbers:10-100400

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	4	4	4	4	4
Final Output Power (dBm EIRP)	23.3	21.5	23.1	21.9	22.9

13. Panel Antenna with 75' 400 Kit numbers:10-75400

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	5	5	5	5.5	5.5
Final Output Power (dBm EIRP)	24.3	22.5	24.1	23.4	24.4

14. Panel Antenna with 50' 400 Kit numbers:10-50400

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	6	6	6	7	7
Final Output Power (dBm EIRP)	25.3	23.5	25.1	24.9	25.9

15. Panel 10dbi Antenna with 30' 400 Kit numbers:10-30400

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	6.8	6.8	6.8	8.2	8.2
Final Output Power (dBm EIRP)	26.1	24.3	25.9	26.1	27.1

16. Panel Antenna with 100' 300 Kit numbers:10-100300

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	2	2	2	0.8	0.8
Final Output Power (dBm EIRP)	21.3	19.5	21.1	18.7	19.7

17. Panel Antenna with 75' 300 Kit numbers:10-75300

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	3.5	3.5	3.5	3	3
Final Output Power (dBm EIRP)	22.8	21	22.6	20.9	21.9



SHENZHEN HUAAPTEC CO., LTD
 Add.:5th FL, E BIOG, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

18. Panel Antenna with 50' 300

Kit numbers:10-50300

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	5	5	5	5.4	5.4
Final Output Power (dBm EIRP)	24.3	22.5	24.1	23.3	24.3

19. Panel Antenna with 30' 300

Kit numbers:10-30300

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	6.2	6.2	6.2	7.2	7.2
Final Output Power (dBm EIRP)	25.5	23.7	25.3	25.1	26.1

20. Panel Antenna with 50' 200

Kit numbers:10-50200

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	5.0	5.0	7.1	7.5	7.5
Final Gain Less Loss (dB)	3.0	3.0	0.9	2.5	2.5
Final Output Power (dBm EIRP)	22.3	20.5	20.0	20.4	21.4

21. Panel Antenna with 30' 200

Kit numbers:10-30200

Antenna Gain (dBi)	8	8	8	10	10
Coax Cable Loss (dB)	3.0	3.0	4.3	4.5	4.5
Final Gain Less Loss (dB)	5.0	5.0	3.7	5.5	5.5
Final Output Power (dBm EIRP)	24.3	22.5	22.8	23.4	24.4

22. Panel Antenna with 100' 400

Kit numbers:10-100400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	2.5	2.5	2.5	3.4	3.4
Final Output Power (dBm EIRP)	21.8	20	21.6	21.3	22.3

23. Panel Antenna with 75' 400

Kit numbers:10-75400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	3.5	3.5	3.5	4.9	4.9
Final Output Power (dBm EIRP)	22.8	21	22.6	22.8	23.8

24. Panel Antenna with 50' 400

Kit numbers:10-50400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	4.5	4.5	4.5	6.4	6.4
Final Output Power (dBm EIRP)	23.8	22	23.6	24.3	25.3



SHENZHEN HUAAPTEC CO., LTD
 Add.:5th FL, E B10G, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

25. Panel 10dbi Antenna with 30' 400 Kit numbers:10-30400

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	5.3	5.3	5.3	7.6	7.6
Final Output Power (dBm EIRP)	24.6	22.8	24.4	25.5	26.5

26. Panel Antenna with 100' 300 Kit numbers:10-100300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	0.5	0.5	0.5	0.2	0.2
Final Output Power (dBm EIRP)	19.8	18	19.6	18.1	19.1

27. Panel Antenna with 75' 300 Kit numbers:10-75300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	2	2	2	2.4	2.4
Final Output Power (dBm EIRP)	21.3	19.5	21.1	20.3	21.3

28. Panel Antenna with 50' 300 Kit numbers:10-50300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	3.5	3.5	3.5	4.8	4.8
Final Output Power (dBm EIRP)	22.8	21	22.6	22.7	23.7

29. Panel Antenna with 30' 300 Kit numbers:10-30300

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	4.7	4.7	4.7	6.6	6.6
Final Output Power (dBm EIRP)	24	22.2	23.8	24.5	25.5

30. Panel Antenna with 50' 200 Kit numbers:10-50200

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	5.0	5.0	7.1	7.5	7.5
Final Gain Less Loss (dB)	1.5	1.5	-0.6	1.9	1.9
Final Output Power (dBm EIRP)	20.8	19.0	18.5	19.8	20.8

31. Panel Antenna with 30' 200 Kit numbers:10-30200

Antenna Gain (dBi)	6.5	6.5	6.5	9.4	9.4
Coax Cable Loss (dB)	3.0	3.0	4.3	4.5	4.5
Final Gain Less Loss (dB)	3.5	3.5	2.2	4.9	4.9
Final Output Power (dBm EIRP)	22.8	21.0	21.3	22.8	23.8



SHENZHEN HUAAPTEC CO., LTD
 Add.:5th FL, E B10G, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

32. Wide Band Directional Antenna with 100' 400 Kit numbers:9-100400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	4	4	4	3.5	3.5
Final Output Power (dBm EIRP)	23.3	21.5	23.1	21.4	22.4

33. Wide Band Directional Antenna with 75' 400 Kit numbers:9-75400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	5	5	5	5	5
Final Output Power (dBm EIRP)	24.3	22.5	24.1	22.9	23.9

34. Wide Band Directional Antenna with 50' 400 Kit numbers:9-50400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	6	6	6	6.5	6.5
Final Output Power (dBm EIRP)	25.3	23.5	25.1	24.4	25.4

35. Wide Band Directional Antenna with 30' 400 Kit numbers:9-30400

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	6.8	6.8	6.8	7.7	7.7
Final Output Power (dBm EIRP)	26.1	24.3	25.9	25.6	26.6

36. Wide Band Directional Antenna with 100' 300 Kit numbers:9-100300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	6	6	6	9.2	9.2
Final Gain Less Loss (dB)	2	2	2	0.3	0.3
Final Output Power (dBm EIRP)	21.3	19.5	21.1	18.2	19.2

37. Wide Band Directional Antenna with 75' 300 Kit numbers:9-75300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	3.5	3.5	3.5	2.5	2.5
Final Output Power (dBm EIRP)	22.8	21	22.6	20.4	21.4

38. Wide Band Directional Antenna with 50' 300 Kit numbers:9-50300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	5	5	5	4.9	4.9
Final Output Power (dBm EIRP)	24.3	22.5	24.1	22.8	23.8



SHENZHEN HUAAPTEC CO., LTD
 Add.: 5th FL, E B10G, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

39. Wide Band Directional Antenna with 30' 300 Kit numbers: 9-30300

Antenna Gain (dBi)	8	8	8	9.5	9.5
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	6.2	6.2	6.2	6.7	6.7
Final Output Power (dBm EIRP)	25.5	23.7	25.3	24.6	25.6

40. Wide Band Directional Antenna with 50' 200 Kit numbers: 9-50200

Antenna Gain (dBi)	8.0	8.0	8.0	9.5	9.5
Coax Cable Loss (dB)	5.0	5.0	7.1	7.5	7.5
Final Gain Less Loss (dB)	3.0	3.0	0.9	2.0	2.0
Final Output Power (dBm EIRP)	22.3	20.5	20.0	19.9	20.9

41. Wide Band Directional Antenna with 30' 200 Kit numbers: 9-30200

Antenna Gain (dBi)	8.0	8.0	8.0	9.5	9.5
Coax Cable Loss (dB)	3.0	3.0	4.3	4.5	4.5
Final Gain Less Loss (dB)	5.0	5.0	3.7	5.0	5.0
Final Output Power (dBm EIRP)	24.3	22.5	22.8	22.9	23.9

42. Panel Antenna with 100' 400 Kit numbers: 7-100400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	4	4	4	6	6
Final Gain Less Loss (dB)	3	3	3	1	1
Final Output Power (dBm EIRP)	22.3	20.5	22.1	18.9	19.9

43. Panel Antenna with 75' 400 Kit numbers: 7-75400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	3	3	3	4.5	4.5
Final Gain Less Loss (dB)	4	4	4	2.5	2.5
Final Output Power (dBm EIRP)	23.3	21.5	23.1	20.4	21.4

44. Panel Antenna with 50' 400 Kit numbers: 7-50400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	2	2	2	3	3
Final Gain Less Loss (dB)	5	5	5	4	4
Final Output Power (dBm EIRP)	24.3	22.5	24.1	21.9	22.9

45. Panel Antenna with 30' 400 Kit numbers: 7-30400

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	1.2	1.2	1.2	1.8	1.8
Final Gain Less Loss (dB)	5.8	5.8	5.8	5.2	5.2
Final Output Power (dBm EIRP)	25.1	23.3	24.9	23.1	24.1



SHENZHEN HUAAPTEC CO., LTD
 Add.:5th FL, E BIOG, Sogood Science Park, Hangkong Road,
 Xixiang, Bao'an, Shenzhen, Guangdong, China 518102
 Tel: +86-0755-29921615 29921635 Fax: +86-755-29921165

46. Panel Antenna with 75' 300

Kit numbers:7-75300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	4.5	4.5	4.5	7	7
Final Gain Less Loss (dB)	2.5	2.5	2.5	0	0
Final Output Power (dBm EIRP)	21.8	20	21.6	17.9	18.9

47. Panel Antenna with 50' 300

Kit numbers:7-50300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	3	3	3	4.6	4.6
Final Gain Less Loss (dB)	4	4	4	2.4	2.4
Final Output Power (dBm EIRP)	23.3	21.5	23.1	20.3	21.3

48. Panel Antenna with 30' 300

Kit numbers:7-30300

Antenna Gain (dBi)	7	7	7	7	7
Coax Cable Loss (dB)	1.8	1.8	1.8	2.8	2.8
Final Gain Less Loss (dB)	5.2	5.2	5.2	4.2	4.2
Final Output Power (dBm EIRP)	24.5	22.7	24.3	22.1	23.1

49. Panel Antenna with 50' 200

Kit numbers:7-50200

Antenna Gain (dBi)	7.0	7.0	7.0	7.0	7.0
Coax Cable Loss (dB)	5.0	5.0	7.1	7.5	7.5
Final Gain Less Loss (dB)	2.0	2.0	-0.1	-0.5	-0.5
Final Output Power (dBm EIRP)	21.3	19.5	19.0	17.4	18.4

50. Panel Antenna with 30' 200

Kit numbers:7-30200

Antenna Gain (dBi)	7.0	7.0	7.0	7.0	7.0
Coax Cable Loss (dB)	3.0	3.0	4.3	4.5	4.5
Final Gain Less Loss (dB)	4.0	4.0	2.7	2.5	2.5
Final Output Power (dBm EIRP)	23.3	21.5	21.8	20.4	21.4

Indoor Antenna is integrated into the signal booster

Antenna Gain (dBi)	-3	-3	-3	-2	-2
Splitter/Coax Loss (dB)	0	0	0	0	0
Final Gain Less Splitter/Coax Loss (dB)	-3	-3	-3	-2	-2
Antenna Gain with Coax Loss Margin (dB)	-29.91	-29.21	-31.91	-28.91	-29.30
Final Output Power (dBm EIRP)	-12.90	-12.20	-14.90	-11.90	-12.30