
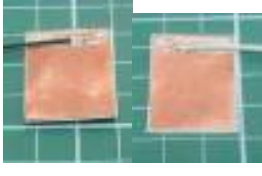
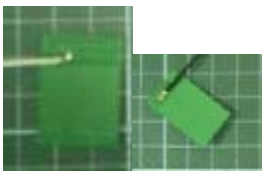
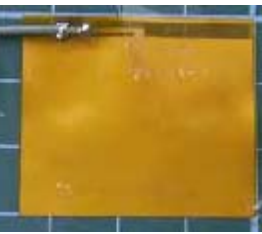
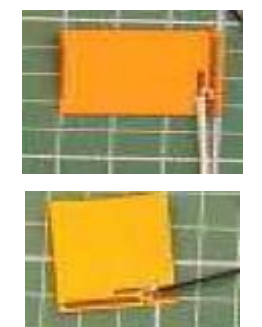


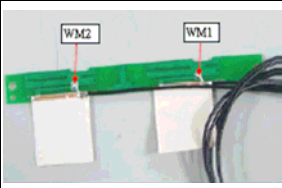
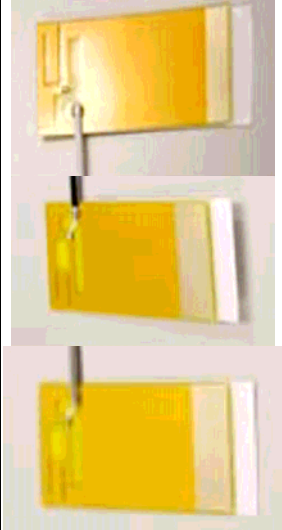
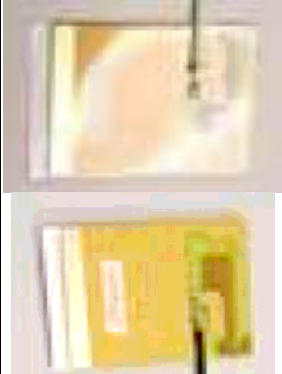

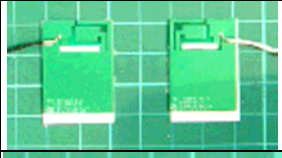
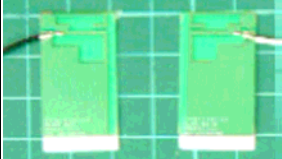



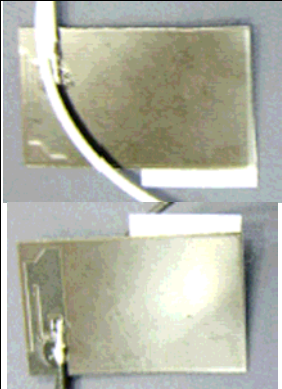
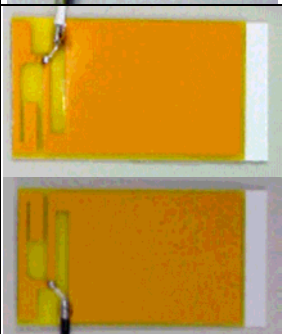
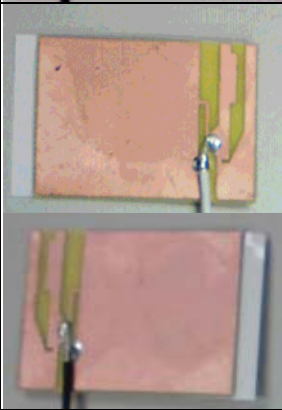
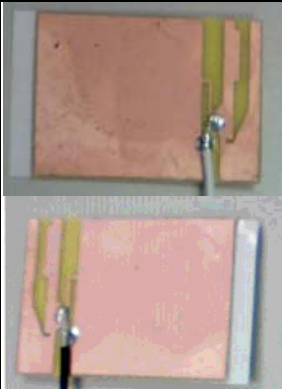
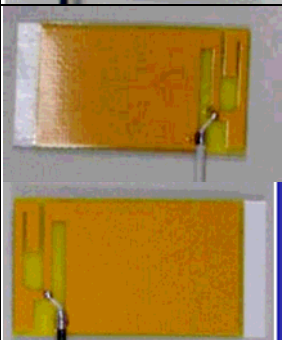
## Appendix A. Antenna List

Table for Filed Antenna



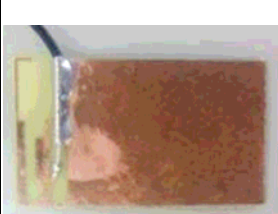






No.	Ant. Photo	Brand	Ant. Type	Con. Type	Peak Gain (dBi)		Model No.
					2.4GHz	5GHz	
01		LYNwave	PIFA	IPEX	3.5	5.0	ALA110-222050-300010
02		JOYMAX	Dipole	IPEX	3.0	5.0	TWF-614XMPXX-500
03		ACON	PIFA	IPEX	TX 1: -0.19 TX 2: -0.99	1.27 -1.39	AWP6P
04		FVC	PIFA	IPEX	TX 1: 3.16 TX 2: 2.36	2.99 1.42	TX 1: C5100-WiMAX-1 TX 2: C5100-WiMAX-2
05		wgt	PIFA	IPEX	WM 1: 2.27 WM 2: 1.46	4.92 4.64	WM 1: A9100 WM-1 WM 2: A9100 WM-2
06		Foxconn	PIFA	IPEX	TX 1: 1.47 TX 2: 1.38	1.99 1.77	WDAN-T1WM
07		Hitachi	PIFA	IPEX	Main: 2.19 Aux.: -0.33	1.21 1.96	HBY07
08		Hitachi	PIFA	IPEX	Main: 2.91 Aux.: 2.82	2.20 0.44	HBY051
09		Hitachi	PIFA	IPEX	TX 1: 0.27 TX 2: 0.02	0.70 1.92	HBY052



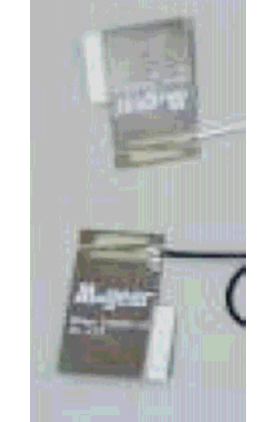



10		Hitachi	PIFA	IPEX	TX 1: 1.30 TX 2: 2.42	2.63 0.13	HBV061
11		Hitachi	PIFA	IPEX	TX 1: -1.04 TX 2: -1.19	-0.18 0.27	HBV062
12		Hitachi	PIFA	IPEX	TX 1: -1.74 TX 2: 1.16	2.00 1.77	HFT65
13		Hitachi	PIFA	IPEX	TX 1: 0.87 TX 2: 1.94	-0.84 -2.46	HCT01
14		Hitachi	PIFA	IPEX	TX 1: 0.58 TX 2: 1.12	1.79 3.37	HFT40
15		Hitachi	PIFA	IPEX	TX 1: -1.65 TX 2: -0.92	-0.16 -0.97	HFT60
16		FOXCONN	PIFA	IPEX	TX 1: -0.43 TX 2: -0.7	-0.05 -1.44	WDAN-TQ

17		VSO	PIFA	IPEX	WM-1: 2.83 WM-2: 1.95	3.41 3.61	821-103-01211150 (GRF0583)
18		WNC	PIFA	IPEX	Main: 0.42 Aux.: 0.79 MIMO: 0.14	2.26 1.93 1.37	81.EJZ
19		WNC	PIFA	IPEX	Main: 0.96 Aux.: -0.08	2.33 1.88	81.EJT
20		ETHERTRONIC S	PIFA	IPEX	TX 1: 0.12 TX 2: -3.87	-2.7 -2.36	TX 1: 5002011-1 TX 2: 5002012-1
21		ETHERTRONIC S	PIFA	IPEX	TX 1: 0.76 TX 2: 0.59	-0.81 -2.78	TX 1: 5002015-1 TX 2: 5002016-1
22		ETHERTRONIC S	PIFA	IPEX	TX 1: -1.76 TX 2: -2.61	-2.0 -2.13	TX 1: 5010011-1 TX 2: 5010012-1
23		ETHERTRONIC S	PIFA	IPEX	TX 1: -0.84 TX 2: -2.07	-2.46 -2.15	TX 1: 5010015-1 TX 2: 5010016-1

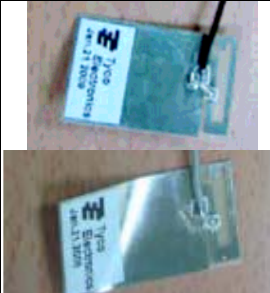




24		ACON	PIFA	IPEX	TX 1: 0.00 TX 2: 1.89	1.53 1.22	AMP6P
25		WNC	PIFA	IPEX	Main: -1.08 Aux.: -0.62	-0.58 -1.36	81.EJZ15.G52
26		WNC	PIFA	IPEX	Main: -0.58 Aux.: -1.26	0.91 0.55	81.EJT15.GJC
27		WNC	PIFA	IPEX	Main: 0.52 Aux.: 0.77	-0.31 0.51	81.EJT15.GGW
28		WNC	PIFA	IPEX	Main: -0.78 Aux.: -2.14	-1.44 -3.16	81.EJZ15.G53

29		QUANTA	PIFA	IPEX	TX 1: -0.7 TX 2: -1.9	0.1 -2.2	TX 1: AN-070-G(R) TX 2: AN-070-G(L)
30		QUANTA	PIFA	IPEX	TX 1: -0.3 TX 2: -1.9	-0.3 -1.9	TX 1: AN-070-G(R) TX 2: AN-070-G(L)
31		QUANTA	PIFA	IPEX	TX 1: -0.4 TX 2: -0.3	0.5 -1.9	TX 1: AN-120-F(R) TX 2: AN-120-F(L)
32		QUANTA	PIFA	IPEX	TX 1: -1.8 TX 2: -4.4	0.5 -2.7	TX 1: AN-120-F(R) TX 2: AN-120-F(L)
33		JEM	PIFA	IPEX	Main: 1.27 Aux.: -1.27	1.44 1.66	Main: IA-100193 Aux.: IA-100194
34		Tyco (20-D1130002D )	PIFA	IPEX	TX1: -0.10 TX2: -0.92 TX 3: 0.56	-0.01 -1.76 -1.24	TBN008

							
35	 	Smart Approach	PIFA	IPEX	TX 1: 1.51 TX 2: 1.56	0.36 -1.74	03-FR021-026
36	  	Hitachi Cable	PIFA	IPEX	TX 1: -0.42 TX 2: 0.59 TX 3: 1.24	0.90 2.08 1.60	HBY17
37	 	Hitachi	PIFA	IPEX	TX 1: 2.97 TX 2: 0.90	3.14 3.72	HFT60
38		Well Green	PIFA	IPEX	TX 1: -1.7 TX 2: -3.05	-0.01 1.49	TX 1: SKM11WMPB01+C TX 2: SKM11WMPB02+D

							
39		Smart Approach	PIFA	IPEX	TX 1: 1.66 TX 2: 1.83	1.96 1.97	03-FR021-020
40		WHAYU	PIFA	IPEX	Main: -2.12 Aux.: -2.49	-0.70 -1.53	MSA-00005A
41		Well Green	PIFA	IPEX	TX1: -1.12 TX2: 1.01	1.12 1.66	TX1: SKX51WMPB01+C TX2: SKX51WMPB02+C
42		Well Green	PIFA	IPEX	TX1: -0.93 TX2: 0.37	0.88 -0.16	TX1: SKX71WMPB01+B TX2: SKX71WMPB02+B
43		TYCO (20238740-1)	PIFA	IPEX	TX 1: 0.47 TX 2: 0.06 TX 3: 1.65	1.61 0.79 0.41	TBN008



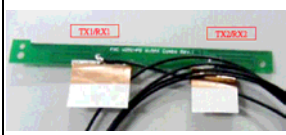
							
44		Well Green	PIFA	IPEX	TX1: 0.73 TX2: -0.98	2.29 2.33	TX1: SKR13WMPB01+A TX2: SKR13WMPB01+A
45		TYCO (2023772-1)	PIFA	IPEX	TX 1: -2.60 TX 2: -0.26 TX 3: -0.91	-0.02 -1.02 -1.59	TBN008
46		TYCO	PIFA	IPEX	TX 1: 1.98 TX 2: 1.97 TX 3: -0.88	-0.66 1.67 -0.03	TBN007
47		TYCO	PIFA	IPEX	TX 1: 0.22 TX 2: 0.33 TX 3: 2.20	2.40 1.58 2.64	TBN009

							
48		TYCO	PIFA	IPEX	TX 1: 1.68 TX 2: 1.45 TX 3: 0.29	1.66 1.30 1.73	TBN010
49		Smart Approach	PIFA	IPEX	TX 1: 2.37 TX 2: 1.59	3.22 1.85 2.35	03-FR021-016
50		Foxconn	PIFA	IPEX	TX 1: 2.58 TX 2: 1.39	1.97 1.16	TX 1: WDAN-T1AM1001-DH TX 2: WDAN-T1AM1002-DH

							
51		WNC	PIFA	IPEX	Main: -2.76 Aux.: -3.64	-0.72 -0.26	WNC005
52		FVC	PIFA	IPEX	TX 1: 2.85 TX 2: 1.87 TX 3: 2.12	3.00 2.72 2.61	TX 1: N01001195001 TX 2: N01001195001 TX 3: N01001179001
53		Well Green	PIFA	IPEX	TX 1: -0.16 TX 2: 0.74	1.43 0.05	SK840WMPB01+B
54		WNC	PIFA	IPEX	Main: -1.10 Aux.: 1.76	1.18 0.38	WNC001
55		WNC	PIFA	IPEX	Main: 1.18 Aux. 1.75	-0.65 -0.41	WNC002
56		Tyco	PIFA	IPEX	Main: -1.11 Aux.: -1.11 MIMO: -0.95	3.91 1.91 1.91	TBN003

							
57		WNC	PIFA	IPEX	Main: 2.40 Aux.: 1.50	-1.28 -0.30	WNC004
58		WNC	PIFA	IPEX	Main: 1.19 Aux.: 0.28	0.72 0.91	WNC001
59		WNC	PIFA	IPEX	Main: 0.52 Aux.: 1.07	2.24 3.01	WNC003
60		FVC	PIFA	IPEX	TX 1: 2.91 TX 2: 2.74	1.34 2.26	TX 1: K05007010501 TX 2: K05007010601
61		FVC	PIFA	IPEX	WM-1: 1.66 WM-2: 0.53	1.87 0.47	WM-1: K05007009701 WM-2: K05007009801
62		Tyco	PIFA	IPEX	Main: 3.45 Aux: 2.41 MIMO: 1.04	3.06 2.44 3.02	TBN001
63		Well Green	PIFA	IPEX	TX 1: 1.79 TX 2: 0.66	1.49 -0.4	TX 1: SK81WMPB01+A TX 2: SK81WMPB02+A

64		Tyco	PIFA	IPEX	-1.11	-1.20	TBN005 & TBN006
65		Well Green	PIFA	IPEX	TX 1: -1.07 TX 2: -0.64	0.27 1.95	SKW31WMPB01+A
66		FVC	PIFA	IPEX	WiMAX-1: 1.58 WiMAX-2: 1.75	2.54 2.24	K05007012102
67		FVC	PIFA	IPEX	WiMAX-1: 2.7 WiMAX-2: 2.19	1.57 2.94	K05007013402
68		Well Green	PIFA	IPEX	TX 1: -1.84 TX 2: -2.93	0.44 1.35	TX 1: SKM11WMPB03+A TX 2: SKM11WMPB02+D
69		FVC	PIFA	IPEX	WiMAX-1: 1.84 WiMAX-2: 1.8	2.77 2.95	N01001218001
70		Well Green	PIFA	IPEX	TX 1: -1.63 TX 2: -0.99	1.87 1.05	SKW24WMPB01
71		FVC	PIFA	IPEX	TX 1: 2.05 TX 2: 1.88 TX 3: 3.04	1.71 1.23 3.92	TX 1: N01001199001 TX 2: N01001199001 TX 3: N01001182002

72		FVC	PIFA	IPEX	TX1: 3.11 TX2: 0.55	2.67 1.70	TX1: N01001193001 TX2: N01001193001
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