

## Appendix B. Antenna List

Table for Filed Antenna

No.	Brand	Ant. Type	Con. Type	Peak Gain (dBi)	Model No.
1	LYNwave	PIFA	IPEX MHF4	TX1: 3.5	TX1: ALA110-222050-300011
2	LYNwave	PIFA	IPEX	TX1: 3.5	TX1: ALA110-222050-300010
3	JOYMAX	DIPOLE	IPEX	TX1: 3.0	TX1: TWF-614XMPXX-500
4	Well Green	PIFA	IPEX	TX1: 0.85 TX2: 0.44	TX1: SKW10WMPB01+A TX2: SKW10WMPB02+A
5	Well Green	PIFA	IPEX	TX1: 0.42 TX2: -0.13	TX1: SK65EWMPB01+A TX2: SK650WMPB02+A
6	JESS-LINK	PIFA	IPEX	TX1: 2.72 TX2: 0.07	TX1: DC33001AD00 TX2: DC33001AD00
7	HIGH-TEK	PIFA	IPEX	TX1: -0.93 TX2: 0.87	TX1: DC33001AC00 TX2: DC33001AC00
8	Luxshared	PIFA	IPEX	TX1: -0.28 TX2: 0.59	TX1: L01RF023-YT-R (WLAN Main) TX2: L01RF029-YT-R (WLAN Aux)
9	Luxshared	PIFA	IPEX	TX1: 2.08 TX2: 0.14	TX1: L01RF019-DT-R (31-502717) TX2: L01RF021-DT-R (31-502716)
10	Well Green	PIFA	IPEX	TX1: 0.55 TX2: 1.36	TX1: SKAEUWMPB01+B TX2: SKAEUWMPB01+B
11	Well Green	PIFA	IPEX	TX1: 0.82 TX2: -2.23	TX1: SKA91WMPB02+A TX2: SKA91WMPB01+A
12	Wgt	PIFA	IPEX	TX1: 2.14 TX2: 1.92	TX1: W550EU WM-1 TX2: W550EU WM-2
13	Acon	PIFA	IPEX	TX1: -0.63 TX2: -3.39	TX1: APP6P-700781 TX2: APP6P-700782
14	Acon	PIFA	IPEX	TX1: -0.13 TX2: -0.23	TX1: ATM6P-70100 TX2: ATM6P-70200
15	WNC	PIFA	IPEX	TX1: -0.58 TX2: -1.48	TX1: DQ6G15G5800 TX2: DQ6G15G5700
16	Zhan Yun	PIFA	IPEX	TX1: -0.70 TX2: -1.20	TX1: DQ60QTLI200 TX2: DQ60QTLI201
17	WNC	PIFA	IPEX	TX1: 1.15 TX2: 0.59	TX1: 81.EKG15.G30 TX2: 81.EKG15.G29
18	YAGEO	PIFA	IPEX	TX1: 0.59 TX2: 0.90	TX1: CAN4313LC0613WLA3 TX2: CAN4313LC0613WLA4
19	WNC	PIFA	IPEX	TX1: 0.18 TX2: 0.60	TX1: 81.EKG15.G38 TX2: 81.EKG15.G37

20	JESS-LINK	PIFA	IPEX	TX1: 1.89 TX2: 1.56	TX1: PANT11A00008-1 TX2: PANT11A00009-1
21	Foxconn	PIFA	IPEX	TX1: 0.21 TX2: 0.60	TX1: WDAN-T1RH1 TX2: WDAN-T1RH2
22	Well Green	PIFA	IPEX	TX1: 0.21 TX2: -0.75	TX1: SKX71WMPB01+B TX2: SK370WMPB01+B
23	Luxshared	PIFA	IPEX	TX1: -0.6 TX2: -0.29	TX1: L01RF008-R TX2: L01RF009-R
24	Well Green	PIFA	IPEX	TX1: 0.72 TX2: 0.49	TX1: SKW25WMPB01+A TX2: SKW25WMPB01+A
25	Well Green	PIFA	IPEX	TX1: -0.17 TX2: -2.24	TX1: SK549WMPB01+A TX2: SK549WMPB02+A
26	Wgt	PIFA	IPEX	TX1: 1.7 TX2: 2.53	TX1: W350ETQ WM-1 TX2: W350ETQ WM-2
27	Well Green	PIFA	IPEX	TX1: -1.93 TX2: -1.28	TX1: SKW54WMPB01+C TX2: SKW34WMPB02+A
28	Joinsoon	PIFA	IPEX	TX1: 2.6 TX2: 0.53	TX1: IA-120266 TX2: IA-120267
29	WNC	PIFA	IPEX	TX1: 0.24 TX2: -0.58	TX1: 25.90AH8.001 TX2: 25.90AH7.001
30	Wieson	PIFA	IPEX	TX1: 1.28 TX2: 0.34	TX1: 25.90AH8.011 TX2: 25.90AH7.011
31	Yageo	PIFA	IPEX	TX1: -0.27 TX2: -0.88	TX1: 25.90AH8.021 TX2: 25.90AH7.021
32	Yageo	PIFA	IPEX	TX1: -0.11 TX2: -0.68	TX1: 25.90AJB.001 TX2: 25.90AJC.001
33	Yageo	PIFA	IPEX	TX1: -1.32 TX2: -1.14	TX1: 25.90AJB.001 TX2: 25.90AJC.001
34	Yageo	PIFA	IPEX	TX1: 2.74 TX2: 0.63	TX1: 25.90ALR.001 TX2: 25.90ALQ.001
35	WNC	PIFA	IPEX	TX1: -0.61 TX2: 1.91	TX1: 25.90AAL.001 TX2: 25.90AAK.001
36	TE Connectivity	PIFA	IPEX	TX1: 1.29 TX2: 0.04	TX1: 25.90AAL.011 TX2: 25.90AAK.011
37	HIGH-TEK	PIFA	IPEX	TX1: -2.20 TX2: -2.20	TX1: 25.90ALR.011 TX2: 25.90ALQ.011
38	HIGH-TEK	PIFA	IPEX	TX1: -0.70 TX2: -0.60	TX1: 25.90AJB.011 TX2: 25.90AJC.011

39	HIGH-TEK	PIFA	IPEX	TX1: -0.42 TX2: 1.59	TX1: 25.90AJB.011 TX2: 25.90AJC.011
40	FVC	PIFA	IPEX	TX1: 1.58 TX2: 1.75	K05007012102
41	FVC	PIFA	IPEX	TX1: 2.7 TX2: 2.19	K05007013402
42	FVC	PIFA	IPEX	TX1: 1.51 TX2: 2.04	K05007012803
43	FVC	PIFA	IPEX	TX1: 2.53 TX2: 2.28	K05007015501
44	FVC	PIFA	IPEX	TX1: 2.85 TX2: 1.59	K05007014501
45	FVC	PIFA	IPEX	TX1: 3.00 TX2: 1.52	K05007014201
46	FVC	PIFA	IPEX	TX1: 1.85 TX2: 1.94	TX1: K05007014901 TX2: K05007015001
47	ACON	PIFA	IPEX	TX1: -0.57 TX2: -1.61	TX1: APP6P-700900 TX2: APP6P-700900
48	JEM	PIFA	IPEX	TX1: 2.23 TX2: 2.21	1510-0122-0022(IA-120073)
49	WGT	PIFA	IPEX	TX1: 3.2 TX2: 2.76	TX1: SKX51WMPB01+C TX2: SKX51WMPB02+C
50	Yageo	PIFA	IPEX	TX1: 0.24 TX2: 0.59	TX1: ANTA0ZP08021WLAN1 TX2: ANTA0ZP08021WLAN2
51	WGT	PIFA	IPEX	TX1: 1.79 TX2: 0.66	TX1: SK 81WMPB01+A TX2: SK 81WMPB02+A
52	WGT	PIFA	IPEX	TX1: 1.36 TX2: 2.88	SKW2UWMPB01+A
53	WGT	PIFA	IPEX	TX1: 1.85 TX2: 3.14	SKW31WMPB01+A
54	WGT	PIFA	IPEX	TX1: -1.84 TX2: -2.93	TX1: SKM11WMPB03+A TX2: SKM11WMPB02+D
55	WGT	PIFA	IPEX	TX1: 2.46 TX2: 2.91	SKC45WMPB03+B
56	WGT	PIFA	IPEX	TX1: 1.25 TX2: 3.17	SKW24WMPB01+B
57	WGT	PIFA	IPEX	TX1: 0.76 TX2: 0.09	TX1: SK555WMPB01+B TX2: SK555WMPB02+B

58	ACON	PIFA	IPEX	TX1: 1.94 TX2: 1.40	TX1: DQ60APP6P81 TX2: DQ60APP6P80
59	HONGLIN	PIFA	IPEX	TX1: -0.50 TX2: -0.19	TX1: DQ602352300 TX2: DQ602352200
60	Amphenol	PIFA	IPEX	TX1: 1.82 TX2: 2.64	TX1: DC330016100 TX2: DC330016110
61	Amphenol	PIFA	IPEX	TX1: -0.35 TX2: 0.59	TX1: DC330016180 TX2: DC330016190
62	Luxshare-ICT	PIFA	IPEX	TX1: -0.07 TX2: 0.32	TX1: DC330015Z80 TX2: DC330015Z90
63	Luxshare-ICT	PIFA	IPEX	TX1: -1.45 TX2: -0.37	TX1: DC330015Z00 TX2: DC330015Z10
64	Amphenol	PIFA	IPEX	TX1: 1.64 TX2: 1.47	TX1: DC330016160 TX2: DC330016170
65	Luxshare-ICT	PIFA	IPEX	TX1: -0.38 TX2: -0.60	TX1: DC330015Z60 TX2: DC330015Z70
66	Amphenol	PIFA	IPEX	TX1: 1.67 TX2: 2.26	TX1: DC3300161A0 TX2: DC3300161B0
67	Luxshare-ICT	PIFA	IPEX	TX1: 1.1 TX2: 0.1	TX1: DC330015ZA0 TX2: DC330015ZB0
68	Amphenol	PIFA	IPEX	TX1: -0.22 TX2: -1.73	TX1: DC330016200 TX2: DC330016210
69	Amphenol	PIFA	IPEX	TX1: -2.62 TX2: -0.70	TX1: DC330016220 TX2: DC330016230
70	Luxshare-ICT	PIFA	IPEX	TX1: -0.94 TX2: -1.11	TX1: DC330016020 TX2: DC330016030
71	Luxshare-ICT	PIFA	IPEX	TX1: -4.49 TX2: -1.68	TX1: DC330016000 TX2: DC330016010
72	Amphenol	PIFA	IPEX	TX1: -0.46 TX2: -0.98	TX1: DC330016260 TX2: DC330016270
73	Luxshare-ICT	PIFA	IPEX	TX1: -0.43 TX2: 0.84	TX1: DC330016060 TX2: DC330016070
74	HIGH-TEK	PIFA	IPEX	TX1: -0.69 TX2: -0.61	TX1: DC33001C100 TX2: DC33001C100
75	JESS-LINK	PIFA	IPEX	TX1: -1.90 TX2: -0.98	TX1: DC33001AX00 TX2: DC33001AX00
76	YAGEO	PIFA	IPEX	TX1: -0.27 TX2: -0.88	TX1: 25.90AH8.021 TX2: 25.90AH7.021

77	ACON	PIFA	IPEX	TX1: 0.96 TX2: 1.33	TX1: ATP6P-700000 TX2: ATP6P-700001
78	ACON	PIFA	IPEX	TX1: 1.92 TX2: 2.20	TX1: APP6P-700853 TX2: APP6P-700854
79	ACON	PIFA	IPEX	TX1: 1.20 TX2: 0.11	APP6P-700931
80	WNC	PIFA	IPEX	TX1: 0.24 TX2: -0.58	TX1: 25.90AH8.001 TX2: 25.90AH7.001
81	ACON	PIFA	IPEX	TX1: -0.84 TX2: -1.60	APP6P-700932
82	WNC	PIFA	IPEX	TX1: 0.20 TX2: -0.60	81EAAS15.G01 (DC33001EK00)
83	Luxshared	PIFA	IPEX	TX1: -0.77	L01RF035-DT-R
84	TE	PIFA	IPEX	TX1: -0.63 TX2: -1.69	TX1: 25.90AC4.011 TX2: 25.90AC3.011
85	WNC	PIFA	IPEX	TX1: 1.19 TX2: -0.14	TX1: 25.90AC4.001 TX2: 25.90AC3.001
86	WGT	PIFA	IPEX	TX1: 1.05 TX2: -0.41	TX1: SK110WMPB01+A TX2: SK110WMPB02+A
87	WGT	PIFA	IPEX	TX1: -1.61 TX2: -2.84	TX1: SKW23WMPB01+A TX2: SKW23WMPB02+A
88	WGT	PIFA	IPEX	TX1: -0.66 TX2: 0.78	TX1: SK547WMPB01+A TX2: SK549WMPB02+A
89	WGT	PIFA	IPEX	TX1: -0.93 TX2: 0.20	TX1: SK740WMPB01+A TX2: SK740WMPB02+A
90	WGT	PIFA	IPEX	TX1: 3.03 TX2: 0.55	TX1: SK840WMPB01+B_SN TX2: SK840WMPB01+B_SN
91	WNC	PIFA	IPEX	TX1: -0.26 TX2: -0.67	TX1: 81EAAS15.G02 TX2: 81EAAS15.G02
92	WNC	PIFA	IPEX	TX1: 0.89 TX2: 0.14	DC33001EK40 (81EAAS15.G05)
93	WNC	PIFA	IPEX	TX1: -0.06 TX2: 0.25	TX1: 81.EL415.G28.X01 TX2: 81.EL415.G29.X01
94	TONGDA	PIFA	IPEX	TX1: -0.57 TX2: 0.14	TX1: T-543-900100-12 TX2: T-543-900100-12
95	TONGDA	PIFA	IPEX	TX1: -1.96 TX2: 0.11	TX1: DC33001F300 / T-543-900100-02 TX2: DC33001F300 / T-543-900100-02

96	TONGDA	PIFA	IPEX	TX1: -0.37 TX2: 0.39	TX1: T-543-900100-01 TX2: T-543-900100-01
97	WGT	PIFA	IPEX	TX1: 0.46 TX2: -0.79	TX1: SKCZTWMPB01+A TX2: SKCZTWMPB02+A
98	WGT	PIFA	IPEX	TX1: 1.48 TX2: 1.15	TX1: SK670WMPB01+A TX2: SK670WMPB02+A
99	INPAQ	PIFA	IPEX	TX1: -3.66 TX2: -1.78	TX1: WA-P-LB-02-082 TX2: WA-P-LB-01-046
100	Smart-Approach	PIFA	IPEX	TX1: -4.42 TX2: -4.71	TX1: SE-ECZA0-001 TX2: SE-ECZA0-002
101	WNC	PIFA	IPEX	TX1: 0.26 TX2: -0.65	TX1: 81EAAS15.G13 TX2: 81EAAS15.G14
102	WNC	PIFA	IPEX	TX1: 0.01 TX2: -0.36	TX1: 81EAAS15.G09 TX2: 81EAAS15.G10
103	ACON	PIFA	IPEX	TX1: 1.84 TX2: 1.05	TX1: APP6P-700917 TX2: APP6P-700918
104	ACON	PIFA	IPEX	TX1: 0.17 TX2: -1.20	TX1: APP6P-700915 TX2: APP6P-700916
105	JEM	PIFA	IPEX	TX1: 2.13 TX2: 2.04	TX1: IA 120278 TX2: IA 120279
106	JEM	PIFA	IPEX	TX1: 2.06 TX2: 2.77	IA-120007
107	JEM	PIFA	IPEX	TX1: 1.60 TX2: 2.93	IA-120007
108	WGT	PIFA	IPEX	TX1: 0.76 TX2: 0.46	TX1: SK94SWMPB01+B TX2: SK94SWMPB01+B
109	WGT	PIFA	IPEX	TX1: 1.32 TX2: 1.86	TX1: SK94TWMPB01+B TX2: SK94TWMPB01+B
110	WGT	PIFA	IPEX	TX1: -0.03 TX2: -0.13	TX1: SK50SWMPB01+A TX2: SK50SWMPB02+A
111	ACON	PIFA	IPEX	TX1: 0.84 TX2: -0.27	TX1: APM8P-700072 TX2: APM8P-700073
112	ACON	PIFA	IPEX	TX1: 0.76 TX2: -0.52	TX1: APP8P-700461 TX2: APP8P-700462
113	ACON	PIFA	IPEX	TX1: 1.74 TX2: 1.01	TX1: APM8P-700070 TX2: APM8P-700071

114	ACON	PIFA	IPEX	TX1: 2.92 TX2: 0.06	TX1: APP8P-700463 TX2: APP8P-700464
115	HongLin	PIFA	IPEX	TX1: -0.8 TX2: 0.72	TX1: 260-24018 TX2: 260-24017
116	WNC	PIFA	IPEX	TX1: -0.85 TX2: -0.51	TX1: DC33001CA20 (81.EK515.G52) TX2: DC33001CA30 (81.EK515.G53)
117	ACON	PIFA	IPEX	TX1: 0.82 TX2: 2.07	TX1: APP8P-700473 TX2: APP8P-700474
118	HongLin	PIFA	IPEX	TX1: 1.88 TX2: 1.31	TX1: 260-24016 TX2: 260-24015
119	HongLin	PIFA	IPEX	TX1: 0.87 TX2: -0.53	TX1: 260-24011 TX2: 260-24010
120	HongLin	PIFA	IPEX	TX1: 0.34 TX2: 1.98	TX1: 260-24013 TX2: 260-24012
121	HongLin	PIFA	IPEX	TX1: 1.92 TX2: -0.14	TX1: 260-24001 TX2: 260-24000
122	HongLin	PIFA	IPEX	TX1: 1.85 TX2: 0.94	TX1: 260-24003 TX2: 260-24002
123	Smart Approach	PIFA	IPEX	TX1: 0.37 TX2: 1.35	TX1: SE-ECWGP-001 TX2: SE-ECWGP-002
124	Smart Approach	PIFA	IPEX	TX1: 0.08 TX2: 1.33	TX1: SE-ECLG2-001 TX2: SE-ECLG2-002
125	Smart Approach	PIFA	IPEX	TX1: 1.19 TX2: 1.54	TX1: SE-ECWGR-001 TX2: SE-ECWGR-002
126	Smart Approach	PIFA	IPEX	TX1: -0.04 TX2: 1.10	TX1: SE-ECLG1-001 TX2: SE-ECLG1-002
127	WNC	PIFA	IPEX	TX1: 0.45 TX2: 1.06	TX1: 81.EK515.G36 TX2: 81.EK515.G37
128	WNC	PIFA	IPEX	TX1: -0.90 TX2: -2.06	TX1: DC33001CA00 (81.EK515.G46) TX2: DC33001CA10 (81.EK515.G47)
129	WNC	PIFA	IPEX	TX1: 0.77 TX2: 0.11	TX1: 81.EK515.G38 TX2: 81.EK515.G39
130	WNC	PIFA	IPEX	TX1: -0.20 TX2: -1.54	TX1: DC33001CC00 (81.EK515.G48) TX2: DC33001CC10 (81.EK515.G49)
131	JEM	PIFA	IPEX	TX1: 2.77 TX2: 3.13	TX1: IA-130306 TX2: IA-130307



132	JEM	PIFA	IPEX	TX1: 2.09 TX2: 1.77	TX1: IA-130082 TX2: IA-130083
133	JEM	PIFA	IPEX	TX1: 1.68 TX2: 1.52	TX1: IA-130086 (13B130-FT2070) TX2: IA-130087 (13B130-FT2071)
134	JEM	PIFA	IPEX	TX1: 2.13 TX2: 1.85	TX1: IA-130086 (13B130-FT2070) TX2: IA-130087 (13B130-FT2071)
135	WGT	PIFA	IPEX	TX1: 2.81 TX2: 1.92	TX1: EGTZ2WIPB01+A (13B130-JV3051 ES) TX2: EGTZ2WIPB02+A (13B130-JV3050 ES)
136	WGT	PIFA	IPEX	TX1: 2.5 TX2: 1.65	TX1: EGS45WIPB02+A (13B130-FT2050) TX2: EGS45WIPB01+A (13B130-FT2051)
137	WGT	PIFA	IPEX	TX1: -3.11 TX2: 1.46	TX1: EGS45WIPB02+A (13B130-FT2050) TX2: EGS45WIPB01+A (13B130-FT2051)
138	Luxshare	PIFA	IPEX	TX1: -1.45 TX2: 0.11	TX1: L01RF024-YT-R TX2: L01RF032-YT-R
139	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: 0.14	TX1: L01RF031-DT-R TX2: L01RF013-R
140	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: -0.14	TX1: L01RF031-DT-R TX2: L01RF014-R
141	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: -0.04	TX1: L01RF031-DT-R TX2: L01RF022-DT-R
142	Luxshare	PIFA	IPEX	TX1: 2.51 TX2: 2.51	TX1: L01RF031-DT-R TX2: L01RF031-DT-R
143	JEM	PIFA	IPEX	TX1: 2.64 TX2: -0.19	TX1: IA-130096 TX2: IA-130096
144	JEM	PIFA	IPEX	TX1: 2.03 TX2: -1.19	TX1: IA-130173 TX2: IA-130173
145	JEM	PIFA	IPEX	TX1: 1.05 TX2: -1.60	TX1: IA-130313 TX2: IA-130313
146	JEM	PIFA	IPEX	TX1: 2.57 TX2: 1.55	TX1: IA-130314 TX2: IA-130314

147	Smart Approach	PIFA	IPEX	TX1: -0.27 TX2: 0.85	TX1: SE-ECWU6-001 TX2: SE-ECWU6-001
148	Smart Approach	PIFA	IPEX	TX1: 0.22 TX2: 0.94	TX1: SE-ECWF5-001 TX2: SE-ECWF5-001
149	Yageo	PIFA	IPEX	TX1: -0.12 TX2: -1.03	TX1: CAN4313NC0753LLB1 TX2: CAN4313NC0753LLB1
150	Smart Approach	PIFA	IPEX	TX1: -0.57 TX2: 1.13	TX1: SE-ECWF5-002 TX2: SE-ECWF5-002
151	Yageo	PIFA	IPEX	TX1: 1.13 TX2: -0.03	TX1: CAN4313NC0753LLB2 TX2: CAN4313NC0753LLB2
152	Hong-Lin	PIFA	IPEX	TX1: 2.85 TX2: 0.43	TX1: 260-23557 TX2: 260-23556
153	ACON	PIFA	IPEX	TX1: 0.17 TX2: -1.20	TX1: APP6Y-700000 TX2: APP6Y-700001
154	ACON	PIFA	IPEX	TX1: 1.84 TX2: 1.05	TX1: APP6Y-700002 TX2: APP6Y-700003
155	WNC	PIFA	IPEX	TX1: 0.01 TX2: -0.36	TX1: 81EAAS15.G19 TX2: 81EAAS15.G20
156	WNC	PIFA	IPEX	TX1: 0.26 TX2: -0.65	TX1: 81EAAS15.G17 TX2: 81EAAS15.G18
157	ACON	PIFA	IPEX	TX1: 0.32 TX2: 0.53	TX1: 25.90ALM.001 (AMM8P-700026) TX2: 25.90ALN.001 (AMM8P-700027)
158	INNOWAVE	PIFA	IPEX	TX1: 0.77 TX2: -0.62	TX1: 25.90ALO.001 (640-INNEP0008-A) TX2: 25.90ALP.001 (640-INNEP0007-A)
159	ACON	PIFA	IPEX	TX1: 1.73 TX2: 1.47	TX1: AMM6P-700025 (25.90AL4.001) TX2: AMM6P-700026 (25.90AL5.001)
160	INNOWAVE	PIFA	IPEX	TX1: 0.54 TX2: 1.79	TX1: 25.90AL7.001 (640-INNEP0005-A) TX2: 25.90AL8.001 (640-INNEP0006-A)