

## Antenna List for RTL8188CE

No.	Brand	Model	Antenna Type	Peak gain with cable loss	Cable Loss	Connector Type
1	wistron	DQ661500301(Main) DQ661500301(Aux)	PIFA	3.45 3.14	NA	I-PEX
2	Quanta Computer Inc	37LX6AATP00 (Tx1) 37LX6AATP00 (Tx2)	PIFA	1.8 -0.3	-1.40 -2.02	I-PEX
3	Quanta Computer Inc	37LX7AATP00 (Tx1) 37LX7AATP00 (Tx2)	PIFA	0.3 1.7	-1.44 -1.79	I-PEX
4	Quanta Computer Inc	3ASP8AATP20 (Tx1) 3ASP8AATP20 (Tx2)	PIFA	1.0 0.2	-1.36 -1.95	SPD
5	ACON	25.90675.001 (Rx) 25.90676.001 (Tx)	PIFA	-0.39 0.64	NA	U.FL
6	WNC	25.90669.001 (Rx) 25.90670.001 (Tx)	PIFA	-1.53 1.32	NA	I-PEX
7	NISSEI ELECTRIC CO., LTD	3209970 (Rx) 3210002 (Tx)	PIFA	1.88 1.26	NA	U.FL
8	ACON	25.90598.001 (Rx) 25.90597.001 (Tx)	PIFA	1.17 1.04	NA	I-PEX
9	WNC	25.90587.001 (Rx) 25.90586.001 (Tx)	PIFA	1.94 0.59	NA	I-PEX
10	ACON	25.90653.001 (Rx) 25.90654.001 (Tx)	PIFA	-0.42 -0.13	NA	I-PEX
11	WNC	25.90649.001 (Rx) 25.90650.001 (Tx)	PIFA	-0.52 0.31	NA	I-PEX
12	Foxconn	024-01F0-2242 (Rx) 024-01F0-2243 (Tx)	PIFA	1.16 -0.88	NA	SGX0003-02
13	NISSEI ELECTRIC CO., LTD	3176658 (Rx) 3176674 (Tx)	PIFA	-0.83 -0.61	NA	U.FL
14	Foxconn	WDAN-L1WK1001-DF (Rx) WDAN-L1WK1002-DF (Tx)	PIFA	1.71 1.43	NA	FOXCONN
15	Hitachi	HMT14-MAIN (Rx) HMT14-AUX (Tx)	PIFA	1.82 1.54	NA	U.FL
16	ACON	25.90700.001 (Rx) 25.90702.001 (Tx)	PIFA	-1.21 1.27	NA	I-PEX
17	ACON	25.90800.001 (Rx) 25.90802.001 (Tx)	PIFA	1.37 1.21	NA	U.FL
18	ACON	APM6P-700033 (Rx) APM6P-700034 (Tx)	PIFA	-0.96 -0.86	NA	I-PEX
19	Amphenol Taiwan Corporation	14G152168231LV (Rx) 14G152168131LV (Tx)	PIFA	-1.85 -1.60	NA	I-PEX
20	ACON	APM6P-700027 (Rx) APM6P-700029 (Tx)	PIFA	-1.32 -0.23	NA	I-PEX
21	TYCO	2023940-1 (Rx) 2023944-1 (Tx)	PIFA	-2.39 1.52	NA	U.FL
22	ACON	APM6P-700028 (Rx) APM6P-700030 (Tx)	PIFA	-1.16 -0.74	NA	I-PEX
23	Tyco Holding (Bermuda) VII Ltd.	2023946-1 (Rx) 2023950-1 (Tx)	PIFA	-0.58 -0.11	NA	U.FL
24	Amphenol SAA	LX-0980-11-000-R (Rx) LX-0983-11-000-R (Tx)	PIFA	1.61 1.57	NA	20351-111R-37
25	NISSEI ELECTRIC CO., LTD	3172525 (Rx) 3172566 (Tx)	PIFA	1.35 1.99	NA	U.FL
26	Amphenol	LX0970-11-000-R (Rx) LX0968-11-000-R (Tx)	PIFA	1.47 1.68	NA	U.FL
27	FOXCONN	WDAN-L1ML3001-DF (Rx) WDAN-L1ML3002-DF (Tx)	PIFA	-0.40 1.10	NA	SGX0003-02
28	NISSEI ELECTRIC CO., LTD	3172467 (Rx) 3172509 (Tx)	PIFA	0.54 1.80	NA	U.FL
29	Quanta	DQ6GC200100 (Rx) DQ6GC200200 (Tx)	PIFA	0.1 -0.4	NA	I-PEX

30	Quanta	DQ6GC300100 (Rx) DQ6GC300200 (Tx)	PIFA	-1.3 0.7	NA	I-PEX
31	QUANTA	QADCPS1_WL_M (Rx) QADCPS1_WL_A (Tx)	PIFA	-0.5 -1.4	NA	I-PEX
32	Quanta Computer Inc	QADCFL3 WL M (Rx) QADCFL3 WL A (Tx)	PIFA	-0.1 -0.1	NA	I-PEX
33	ACON	25.90929.001 (Rx) 25.90930.001 (Tx)	PIFA	-0.04 1.16	NA	U.FL
34	Ethertronics, Inc.	25.90934.001 (Rx) 25.90935.001 (Tx)	PIFA	0.60 -0.59	NA	U.FL
35	WNC	25.90919.001 (Rx) 25.90920.001 (Tx)	PIFA	0.87 -0.93	NA	I-PEX
36	Amphenol	C-1334-11-000-26 (Rx) C-1335-11-000-26 (Tx)	PIFA	-0.37 -2.64	NA	U.FL
37	WNC	25.90979.001 (Rx) 25.90980.001 (Tx)	PIFA	0.77 0.74	NA	I-PEX
38	WNC	81.EEO15.001 (Main) 81.EEO15.002 (Aux)	PIFA	1.52 1.72	1.86 2.03	I-PEX
39	WNC	81.EHD15.003 (Main) 81.EHD15.002 (Aux)	PIFA	0.94 -0.77	1.39 1.71	I-PEX
40	WNC	81.EHD15.005 (Tx1) 81.EHD15.004 (Tx2)	PIFA	0.95 -1.51	1.07 1.61	I-PEX
41	WNC	81.EHD15.004 (Main) 81.EHD15.006 (Aux)	PIFA	-1.51 -0.49	1.61 1.82	I-PEX
42	WNC	81.EHD15.004 (Main) 81.EHD15.007 (Aux)	PIFA	-1.51 -0.09	1.61 1.60	I-PEX
43	WNC	81.EHD15.G09 (Tx1) 81.EHD15.G10 (Tx2)	PIFA	-0.31 -1.21	1.08 1.39	I-PEX
44	HON HAI	WDAN-M1WC1001-DF (Main) WDAN-M1MM1001-DF (Aux)	PIFA	-0.28 -1.24	-1.407 1.99	SGX0003-02
45	Amphenol KAE Co., Ltd	SS-03-03-099 (Main) SS-03-03-100 (Aux)	PIFA	0.77 -0.90	1.59 1.76	MHC-231(KAE)
46	HON HAI	WDAN-M1WC1001-DF (Main) WDAN-M1BN1001-DF (Aux)	PIFA	-0.28 -0.14	-1.407 2.30	SGX0003-02
47	HON HAI	WDAN-M1NY1001-DF (Main)	PIFA	0.56	-0.054	SGX0001-00
48	HON HAI	WDAN-M1PB1001-DF (Tx1) WDAN-M1PB1002-DF (Tx2)	PIFA	0.54 -1.40	0.99 1.36	SGX0003-02
49	HON HAI	WDAN-M1SN1002-DF (Main) WDAN-M1SN1001-DF (Aux)	PIFA	0.93 -0.53	-1.357 -1.727	SGX0003-02
50	HON HAI	WDAN-M1OS1001-DF (Main) WDAN-M1OS1002-DF (Aux)	PIFA	0.13 -0.13	-1.871 -2.072	SGX0003-02
51	HON HAI	WDAN-M1WC1002-DF (Main) WDAN-M1WC1001-DF (Aux)	PIFA	0.18 -0.28	-0.866 -1.407	SGX0003-02
52	Hitachi	HFT40 (Tx1) HFT40 (Tx2)	PIFA	0.58 1.12	1.42 2.12	IPEX
53	Hitachi	HFT60 (Tx1) HFT60(Tx2)	PIFA	-1.65 -0.92	1.48 2.18	IPEX
54	WNC	WNC001 (Main) WNC001(Aux)	PIFA	-1.10 1.76	1.17 1.17	IPEX
55	WNC	WNC002 (Main) WNC002 (Aux)	PIFA	-0.37 -0.21	2.28 2.12	IPEX
56	Tyco Holding (Bermuda) VII Ltd.	TBN001 (Main) TBN001 (Aux)	PIFA	3.45 2.41	1.45 2.13	I.P.X
57	Tyco Holding (Bermuda) VII Ltd.	TBN003 (Main) TBN003 (Aux)	PIFA	-1.11 -1.11	1.84 2.16	I.P.X
58	Hitachi	HBY07 (Tx1) HBY07 (Tx2)	PIFA	2.19 -0.33	0.95 0.95	IPEX
59	Hitachi	HBY051 (Tx1) HBY051 (Tx2)	PIFA	2.91 2.82	0.95 0.95	IPEX
60	Hitachi	HBY052 (Tx1) HBY052 (Tx2)	PIFA	0.27 0.02	0.95 0.95	IPEX
61	Hitachi	HBY061 (Tx1) HBY061 (Tx2)	PIFA	1.30 2.42	0.95 0.95	IPEX

62	Hitachi	HBY062 (Tx1) HBY062 (Tx2)	PIFA	-1.04 -1.19	0.95 0.95	IPEX
63	Hitachi	HFT65 (Tx1) HFT65 (Tx2)	PIFA	-1.74 1.16	0.95 0.95	IPEX
64	Hitachi	HCT01 (Main) HCT01 (Aux)	PIFA	0.87 1.94	0.89 0.89	IPEX or HRS
65	FOXCONN	WDAN-TQ (Tx1) WDAN-TQ (Tx2)	PIFA	-0.43 -0.7	2.5 2.5	SGX0001-00
66	tyco	TBN005 TBN006	PIFA	2.09 3.40	NA	IPEX
67	WNC	WNC004 (Main) WNC004 (Aux)	PIFA	2.40 1.50	1.53 1.92	IPEX
68	Tyco Holding (Bermuda) VII Ltd.	TBN008 (Tx1) TBN008 (Tx2)	PIFA	-0.10 -0.92	1.85 2.66	Technova
69	TYCO	TBN008 (Tx1) TBN008 (Tx2)	PIFA	0.47 0.06	1.81 1.60	IPEX
70	Tyco	TBN008 (Tx1) TBN008 (Tx2)	PIFA	-2.60 -0.26	2.34 2.13	IPEX
71	Tyco	TBN007 (Tx1) TBN007 (Tx2)	PIFA	1.98 1.97	-0.97 -0.97	U.F.L
72	SmartApproach Co., Ltd	03-FR021-016 (Tx1) 03-FR021-016 (Tx2)	PIFA	2.32 0.49	1.03 1.11	IPEX
73	WNC	25.90970.021 (Main) 25.90970.031(Aux)	PIFA	-3.20 -2.99	NA	IPEX
74	ACON	25.90915.041 (Main) 25.90915.051(Aux)	PIFA	1.89 -2.13	NA	IPEX
75	WNC	WNC005 (Main) WNC005 (Aux)	PIFA	-2.76 -3.64	1.86 2.54	IPEX
76	WHAYU	MSA-00005A (Main) MSA-00005A (Aux)	PIFA	-2.12 -2.49	-1.55 -2.16	Tnov
77	WNC	WNC003 (Main) WNC003 (Aux)	PIFA	0.52 1.07	1.49 2.13	IPEX
78	Hitachi	HFS23	PIFA	-0.8	0.89	IPEX or HRS
79	Hitachi	HFS40	PIFA	0.64	0.89	IPEX or HRS
80	Tyco Electronic AMPKK	TBN004 (Main) TBN004 (Aux)	PIFA	0.28 -0.83	0.98 0.98	U.FL
81	Well Green	SKM11WMPB01+C (Tx1) SKM11WMPB02+D (Tx2)	PIFA	-1.70 -3.05	-1.41 -1.11	IPEX
82	Favortron CO.,LTD (FVC)	N01001165001 (Tx1) N01001165001 (Tx2)	PIFA	1.15 0.98	-2.38 -2.34	IPEX
83	Favortron CO.,LTD (FVC)	N01001177001 (Tx1) N01001177001 (Tx2)	PIFA	0.83 1.62	-2.6 -2.73	IPEX
84	Favortron CO.,LTD (FVC)	N01001175001 (Tx1) N01001176001 (Tx2)	PIFA	2.58 1.65	-3.55 -2.42	IPEX
85	Favortron CO.,LTD (FVC)	N01001080001 (Tx1) N01001080001 (Tx2)	PIFA	1.06 1.46	-2.03 -2.07	IPEX
86	Smart Approach Co., Ltd.	03-FR021-026 (Tx1) 03-FR021-026 (Tx2)	PIFA	1.51 1.56	1.26 1.69	IPEX
87	Smart Approach Co., Ltd.	03-FR021-020 (Tx1) 03-FR021-020 (Tx2)	PIFA	1.66 1.83	1.27 1.28	IPEX
88	ACON	AMP8P-700167 (Tx1) AMP8P-700167 (Tx2)	PIFA	1.47 0.35	0.71 1.13	IPEX, MHF, HRS, U.FL
89	Smart Approach Co., Ltd.	SE-0730G-ECM11 (Tx1) SE-0730G-ECM11 (Tx2)	PIFA	2.51 -0.51	1.18 1.85	IPEX, EP
90	WNC	81.EKJ15.G22 (Main) 81.EKJ15.G22 (Aux)	PIFA	-0.21 2.19	1.51 2.24	IPEX
91	Amphenol Taiwan Corporation	FL5130-11-002-C (Tx1) FL5130-11-003-C (Tx2)	PIFA	0.30 -0.20	1.33 1.72	IPEX, Technova
92	YAGEO	B2885050G00003 (Tx1) B2885050G00003 (Tx2)	PIFA	1.17 -0.85	1.00 1.30	Hirose, U.FL-LP, equivalent
93	Quanta	QADCFL3_WL_M (Main) QADCFL3_WL_A (Aux)	PIFA	-0.1 -0.1	NA	IPEX

94	Hitachi	HFT60 (Tx1) HFT60 (Tx2) *peak gain, cable loss & cable length are different with antenna no. 53.	PIFA	2.97 0.90	0.32 0.32	IPEX or HRS
95	WONDERFUL HI-TECH CO., LTD.	A6P1WFI0100A1 (Main) A6P1WFI0100A1 (Aux)	Dipole	1.76 1.76	NA	MHF
96	Auden	220265-09 (Tx1) 220265-09 (Tx2)	PIFA	-0.36 -0.53	1.57 1.08	U.FL
97	WNC	81XCAE15.G13 (Main) 81XCAE15.G14 (Aux)	PIFA	3.18 2.84	0.83 0.92	IPEX
98	Smart Approach Co., Ltd.	SE-042C0-ECL30 (Tx1) SE-042D0-ECL30 (Tx2)	PIFA	0.90 2.75	0.51 0.51	IPEX, EP
99	WNC	81.EJZ15.G52 (Main) 81.EJZ15.G52 (Aux)	PIFA	-1.08 -0.62	2.22 3.03	IPEX
100	WNC	81.EJT15.GJC (Main) 81.EJT15.GJC (Aux)	PIFA	-0.58 -1.26	2.20 3.01	IPEX
101	WNC	81.EJT15.GGW (Main) 81.EJT15.GGW (Aux)	PIFA	0.52 0.77	2.40 3.25	IPEX
102	WNC	81.EJZ15.G53 (Main) 81.EJZ15.G53 (Aux)	PIFA	-0.78 -2.14	2.45 3.24	IPEX
103	Ethertronics Inc.	5002011-1 (TX1) 5002012-1 (TX2)	PIFA	0.12 -3.87	NA	Technova
104	Ethertronics Inc.	5010011-1 (TX1) 5010012-1 (TX2)	PIFA	-1.76 -2.61	NA	Technova
105	QUANTA	AN-070-G(R) (TX1) AN-070-G(L) (TX2)	PIFA	-0.7 -1.9	-2.1 -3	IPEX
106	QUANTA	AN-070-G(R) (TX1) AN-070-G(L) (TX2)	PIFA	-0.3 -1.9	-2.1 -3	IPEX
107	Quanta	AN-120-F(R) (TX1) AN-120-F(L) (TX2)	PIFA	-0.4 -0.3	-2.1 -3	IPEX
108	Quanta	AN-120-F(R) (TX1) AN-120-F(L) (TX2)	PIFA	-1.8 -4.4	-2.1 -3	IPEX
109	Ethertronics Inc.	5002015-1 (TX1) 5002016-1 (TX2)	PIFA	0.76 0.59	NA	Technova
110	Ethertronics Inc.	5010015-1 (TX1) 5010016-1 (TX2)	PIFA	-0.84 -2.07	NA	Technova
111	WNC	25.90A0S.001 (Main) 25.90A0R.001 (Aux)	PIFA	-0.22 -0.74	1.55 2.05	IPEX
112	Dail Fong	AN-PF010008 (Main) AN-PF010007 (Aux)	PIFA	1.79 1.49	0.58 1.05	IPX
113	KimWell	R064018R (Main) R064019R (Aux)	PIFA	1.7 1.42	0.6 1.1	IPX
114	WGT	43R-A14001-0300 (Main) 43R-A14001-0310 (Aux)	PIFA	0.73 0.72	NA	IPEX
115	JEM	43R-A15001-0200 (Main) 43R-A15001-0210 (Aux)	PIFA	1.32 0.56	NA	IPEX
116	SPEEDTECH	43R-A15001-0100 (Main) 43R-A15001-0110 (Aux)	PIFA	2.99 0.35	NA	IPEX
117	WGT	43R-A15001-0300 (Main) 43R-A15001-0310 (Aux)	PIFA	1.54 -0.15	NA	IPEX
118	WGT	43R-B13001-0300 (Main) 43R-B14001-0310 (Aux)	PIFA	-1.49 -0.69	NA	IPEX
119	JEM	43R-DB1401-0200 (Main) 43R-B13001-0220 (Aux)	PIFA	0.20 2.23	NA	IPEX
120	WGT	43R-B14001-0300 (Main)	PIFA	0.85	NA	IPEX
121	JEM	43R-DB1401-0200 (Main) 43R-DA1801-0200 (Aux)	PIFA	3.10 2.98	NA	IPEX
122	WGT	43R-DA1801-0300 (Main) 43R-DA1801-0310 (Aux)	PIFA	1.56 2.23	NA	IPEX
123	JEM	43R-XS3501-0200 (Main) 43R-XS3501-0210 (Aux)	PIFA	-0.05 1.17	NA	IPEX

124	SPEEDTECH	43R-XS3501-0100 (Main) 43R-XS3501-0110 (Aux)	PIFA	1.12 1.62	NA	IPEX
125	WGT	43R-B14001-0300 (Main) 43R-B14001-0310 (Aux)	PIFA	1.06 0.85	NA	IPEX
126	Hitachi Cable	HBY17 (Tx1) HBY17 (Tx2)	PIFA	-0.36 0.97	0.99 0.99	IPEX
127	Tyco Electronic Japan G.K.	TBN009 (Tx1) TBN009 (Tx2)	PIFA	0.22 0.33	0.96 0.95	U.FL
128	Tyco Electronic Japan G.K.	TBN010 (Tx1) TBN010 (Tx2)	PIFA	1.68 1.45	0.96 0.95	U.FL
129	Aristotle	RFA-29-P86-L RFA-29-P86-R	PIFA	3.4 3.4	NA	IPEX
130	Aristotle	RFA-02-P24-70-305-L RFA-02-P24-70B-340-R	PIFA	0.88 0.88	NA	IPEX
131	Smart-Approach	SE-056A0-ECLB5 (Tx1) SE-056B0-ECLB5 (Tx2)	PIFA	0.29 0.37	1.63 2.67	IPX, EP
132	Smart-Approach	SE-084BC-ECCM1 (Tx1) SE-084CD-ECCM1 (Tx2)	PIFA	2.51 1.67	1.36 2.19	IPX
133	Smart-Approach	SE-088AC-ECBL1 (Main) SE-088BD-ECBL1 (Aux)	PIFA	1.87 1.69	1.80 3.46	IPX
134	Whayu	C923-520027-A (Main) C435-520021-A (Aux)	PIFA	0.20 -2.31	1.95 2.89	IPEX
135	WNC	81.EE215.G53 (Tx1) 81.EE215.G54 (Tx2)	PIFA	-2.03 -0.96	1.82 2.86	IPEX
136	YAGEO	CAN43130WLCO03171 (Tx1) CAN43130WLCO03172 (Tx2)	PIFA	-1.55 -2.13	1.33 2.20	Hirose, U.FL-LP, IPEX, MHF
137	Speed	720700300110	PIFA	1.09	NA	IPEX, MHF
138	JEM	43R-A15001-0220(Main) 43R-A15001-0230 (Aux)	PIFA	1.89 0.01	NA	IPEX
139	WGT	43R-A15001-0320 (Main) 43R-A15001-0330 (Aux)	PIFA	1.17 0.85	NA	IPEX
140	South Star	WF06 (L) WF06 (R)	PIFA	3.12 2.71	NA	IPEX
141	South Star	WIFI-L WIFI-R	PIFA	2.96 2.79	NA	IPEX
142	Hispeed	G-EJ-0028 (Main) G-EJ-0027 (Aux)	PIFA	3.02 1.8	NA	IPEX
143	ZTX	ZTX-A162-S10000-00 ZTX-A162-S10000-01	PIFA	1.66 1.82	NA	IPEX
144	Smart Approach	SE-001BC-ECLA0 (Main) SE-002AD-ECLA0 (Aux)	PIFA	1.17 -1.81	1.4 1.59	IPX
145	Foxconn	WDAN-HMCH1401-DH/79010T000-600- G (Tx1) WDAN-HMCH1402-DH/79010SY00-600- G (Tx2)	PIFA	-0.99 -0.09	1.05 1.82	IPEX
146	Yageo	CAN43130WIFO04921/79010SQ00-011- G (Tx1) CAN43130WIFO04922/79010SR00-011- G (Tx2)	PIFA	0.23 1.53	1.08 1.88	Hirose, U.FL-LP, IPEX, MHF
147	WHAYU	C107-520757-A/79010T100-12S-G (Tx1) C107-520756-A/79010SS00-12S-G (Tx2)	PIFA	-0.18 2.58	1.30 1.30	IPEX
148	Foxconn	WDAN-HMCH1501-DH/79010SW00-600- G (Tx1) WDAN-HMCH1502-DH/79010SV00-600- G (Tx2)	PIFA	-0.35 0.38	1.22 2.03	IPEX
149	WNC	25.90A1E.001 (Main) 25.90A1F.001 (Aux)	PIFA	1.89 -0.90	-1.85 -1.84	IPEX
150	Yageo	25.90A1E.011 (Main) 25.90A1F.011 (Aux)	PIFA	1.94 1.78	1.95 2.04	U.FL
151	WNC	25.91370.021 (Main) 25.91371.021 (Aux)	PIFA	0.51 0.58	1.40 1.73	IPEX
152	Yageo	25.91370.011 (Main) 25.91371.011 (Aux)	PIFA	1.06 0.16	1.36 2.00	U.FL



153	Quanta	DQ6GC200100 (Main) DQ6GC200200 (Aux)	PIFA	0.1 -0.4	NA	IPEX
154	Tyco	25.90A4C.021 (Main) 25.90A4D.021 (Aux)	PIFA	0.06 0.18	1.55 1.60	U.FL
155	WNC	25.90A4C.001 (Main) 25.90A4D.001 (Aux)	PIFA	1.52 -0.60	1.83 1.84	U.FL
156	YAGEO	25.90A4C.011 (Main) 25.90A4D.011 (Aux)	PIFA	0.93 -0.17	1.64 1.65	U.FL
157	ACON	25.90929.001 (Main) 25.90930.001 (Aux)	PIFA	-0.04 1.16	NA	IPEX, Hirose, U.FL-LP
158	Ethertronics Inc.	25.90934.001 (Main) 25.90935.001 (Aux)	PIFA	0.60 -0.59	NA	U.FL
159	WNC	25.90919.001 (Main) 25.90920.001 (Aux)	PIFA	0.87 -0.93	NA	IPEX
160	Tyco	25.90A2G.021 (Main) 25.90A2H.021 (Aux)	PIFA	-0.38 1.04	1.49 1.59	IPEX
161	WNC	25.90A2G.001 (Main) 25.90A2H.001 (Aux)	PIFA	1.23 0.29	1.65 1.74	IPEX
162	YAGEO	25.90A2G.011 (Main) 25.90A2H.011 (Aux)	PIFA	0.48 -1.37	1.50 1.60	U.FL
163	Amphenol	C-2238-11-000-26 (Main) C-2239-11-000-26 (Aux)	PIFA	-1.31 -3.09	0.92 1.08	U.FL
164	Amphenol	C-1952-11-000-26 (Main) C-1953-11-000-26 (Aux)	PIFA	0.35 -1.20	0.92 1.08	U.FL
165	Foxconn	WDAN-LFNZ3001-DH (Main) WDAN-LFNZ3002-DH (Aux)	PIFA ; Coupling Type Inverted F Antenna	1.14 0.61	1.03 1.12	IPEX
166	Tyco	1556219-1 (Main) 1556220-1 (Aux)	PIFA	0.64 -0.92	1.24 1.98	IPEX
167	ACON	APP8P-700189 (Main) APP8P-700190 (Aux)	PIFA	2.00 0.13	1.36 1.98	IPEX, MHF, U.FL-LP
168	ACON	APP8P-700191 (Main) APP8P-700192 (Aux)	PIFA	2.00 0.13	1.36 1.98	IPEX, MHF, U.FL-LP
169	Tyco	1556216-1 (Main) 1556215-1 (Aux)	PIFA	0.64 -0.92	1.24 1.98	IPEX
170	Quanta	DQ6GC300100 (Main) DQ6GC300200 (Aux)	PIFA	-1.3 0.7	NA	IPEX
171	Amphenol	C-2381-11-000-26 (Main) C-2382-11-000-26 (Aux)	PIFA	-1.54 -2.93	1.09 1.28	U.FL
172	Foxconn	WDAN-LWSN3001-DH (Main) WDAN-LWSN3002-DH (Aux)	PIFA ; Coupling Type Inverted F Antenna	0.87 0.49	1.40 1.43	IPEX
173	Quanta	DQ622026000 (Tx1) DQ622026000 (Tx2)	PIFA	-1.1 -2.8	-1.8 -2.5	IPEX
174	Quanta	3XTW9AA0000-1 (Tx1) 3XTW9AA0000-2 (Tx2)	PIFA	-2.3 -2.3	-1.8 -2.3	U.FL
175	Smart Approach	SE-00100-EQQUC (Main) SE-00100-EQQUC (Aux)	PIFA	0.15 1.12	0.94 1.77	IPEX
176	Wellshine	7KLQUT-AN020 (Tx1) 7KLQUT-AN020 (Tx2)	PIFA Stamping	0.11 1.17	1.74 0.95	IPEX
177	JEM	IA-100193 (Main) IA-100194 (Aux)	PIFA	1.27 -1.27	1.56 2.36	IPEX
178	ACON	APP8P-700236 (Main) APP8P-700237 (Aux)	PIFA	0.64 1.94	1.26 1.44	IPEX
179	ACON	APP6P-700549 (Main) APP6P-700550 (Aux)	PIFA	1.99 1.41	1.26 1.44	IPEX
180	Smart Approach	SE-ECLA0-001 (Main) SE-ECLA0-002 (Aux)	PIFA	0.57 -1.84	1.37 1.55	IPEX
181	ACON	AMP8P-700186 (Main) AMP8P-700187 (Aux)	PIFA	1.96 1.91	1.58 2.29	IPEX, U.FL, MHF

182	Amphenol	FL5202-11-001-C (Tx1) FL5202-11-001-C (Tx2)	PIFA	-1.41 -0.77	1.38 1.88	U.FL
183	Amphenol	IV5233-15-003-C (Tx1) IV5233-15-002-C (Tx2)	PIFA	0.54 -0.53	1.56 2.37	GBE
184	Amphenol	IV5218-11-002-C (Tx1) IV5218-11-001-C (Tx2)	PIFA	0.55 0.31	1.36 2.23	U.FL
185	Amphenol	FX5170-15-004-C (Tx1) FX5170-15-001-C (Tx2)	PIFA	0.76 -2.11	0.80 1.62	IPEX, Technova
186	HON HAI	WDAN-HMEDW005-DH (Tx1) WDAN-HMEDW005-DH (Rx2)	PIFA	-1.85 1.33	0.67 1.34	IPEX
187	WNC	6036B0086802 (Tx1) 6036B0087102 (Tx2)	PIFA	-1.30 -0.49	1.09 1.36	U.FL
188	WNC	6036B0088203 (Main) 6036B0088303 (Aux)	PIFA	0.50 0.12	1.83 2.25	U.FL
189	WNC	6036B0088203 (Main) 6036B0088303 (Aux)	PIFA	1.21 -0.07	1.83 2.25	U.FL
190	WNC	6036B0087303 (Main) 6036B0087203 (Aux)	PIFA	2.34 1.28	1.76 2.45	U.FL
191	WNC	6036B0091201 (Main) 6036B0091401 (Aux)	PIFA	-1.11 -0.95	1.85 2.71	U.FL
192	YAGEO	CAN43130LIIN03863 (Tx1) CAN43130LIIN03864 (Tx2)	PIFA	-2.69 -1.09	1.04 1.78	Technova
193	YAGEO	6036B0091202 (Tx1) 6036B0091402 (Tx2)	PIFA	0.80 0.25	1.30 1.98	Technova
194	YAGEO	CAN43130LIIN03841 (Tx1) CAN43130LIIN03842 (Tx2)	PIFA	1.46 0.95	1.22 2.03	Technova
195	YAGEO	6036B0088401 (Tx1) 6036B0088501 (Tx2)	PIFA	0.61 0.71	1.90 2.40	Technova
196	ACON	APP8P-700186 (Main) APP8P-700185 (Aux)	PIFA	1.84 0.07	0.81 1.12	I-PEX-MHF, U.FL, Technova
197	ACON	APP8P-700188 (Main) APP8P-700187 (Aux)	PIFA	1.84 0.07	0.81 1.12	I-PEX-MHF, U.FL, Technova
198	WHAYU	C435-520042-A (Main) C435-520045-A (Aux)	PIFA	1.91 1.88	1.11 1.85	Technova
199	WHAYU	C435-520044-A (Main) C435-520043-A (Aux)	PIFA	1.96 1.97	1.11 1.85	Technova
200	ACON	AMP6P (Tx1) AMP6P (Tx2)	PIFA	0.00 1.89	0.86 0.86	I-PEX, Hirose, U.FL-L(P)
201	Foxconn	WDAN-T1AM1001-DH (Tx1) WDAN-T1AM1002-DH (Tx2)	PIFA	2.58 1.39	0.91 0.91	IPEX
202	Quanta	AS-070-F (Tx1) AS-070-F (Tx2)	PIFA	-0.5 -1.9	-1.6 -3	IPEX
203	ACON	DQ60APM6P02(APM6P-700091) (Main) DQ60APM6P02(APM6P-700091) (Aux)	PIFA	-0.7 -0.29	1.81 2.52	IPX, Hirose, Technova,MHF
204	ACON	DQ60APM6P03(APM6P-700092) (Main) DQ60APM6P03(APM6P-700092) (Aux)	PIFA	-0.6 -1.02	2.02 2.73	IPX, Hirose, Technova,MHF
205	Whayu	C1491-520003-A (Main) C1491-520004-A (Aux)	PIFA	2.17 0.20	NA	Technova
206	ACON	ACTA-02 (Tx1) ACTA-02 (Tx2)	PIFA	1.86 1.96	1.63 2.05	I-PEX-MHF, MHF, U.FL-LP
207	ACON	ACTA-01 (Tx1) ACTA-01 (Tx2)	PIFA	1.19 0.46	1.63 2.05	IPEX, MHF, U.FL-LP
208	ACON	APP8P-700180 (TX1) APP8P-700180 (TX2)	PIFA	-0.96 0.22	1.32 1.76	I-PEX-MHF, U.FL-L(P)
209	ACON	APP8P-700182(TX1) APP8P-700181(TX2)	PIFA	2.62 2.80	0.99 0.94	I-PEX-MHF ,U.FL-L(P)
210	Quanta Computer Inc	NM1_AN-090-H/I (TX1) NM1_AN-090-H/I (TX2)	PIFA	-1.9 -1.5	-0.96 -2.21	SPD
211	YAGEO	DQ643130W13(TX1) DQ643130W13(TX2)	PIFA	-0.49 -2.30	0.69 1.23	Technova, compatible,HL
212	WNC	HPMH-B3035050G00011(Tx1) HPMH-B3035050G00011(Tx2)	PIFA	0.20 1.97	2.11 1.92	U.FL

213	Favortron CO.,LTD (FVC)	W270HUQ-WiMAX-1 W270HUQ-WiMAX-2	PIFA	2.85 1.87	NA	I-PEX
214	Smart Approach	SE-ECC60-002 (Main) SE-ECC60-001 (Aux)	PIFA	1.49 1.76	0.93 1.06	IPEX
215	WNC	81.EEW15.G38 (Tx1) 81.EEW15.G39 (Tx2)	PIFA	0.62 2.8	1.13 1.25	IPEX
216	WNC	25.90A1E.001 (Main) 25.90A1F.001 (Aux)	PIFA	1.94 -0.85	-1.85 -1.84	IPEX
217	Quanta	QADC FL8_WL_M (Main) QADC FL8_WL_A (Aux)	PIFA	0.1 -0.3	1.6 1.6	IPEX
218	YAGEO	25.90A4W.001 (Main) 25.90A4V.001 (Aux)	PIFA	0.07 -0.06	-1.25 -1.5	U.FL
219	FOXLINK	25.90A4W.011(Main) 25.90A4V.011(Aux)	PIFA	1.98 1.97	-1.39 -1.58	U.FL
220	Quanta	QADC PS3_WL_M (Main) QADC PS3_WL_A (Aux)	PIFA	-0.1 0	1.6 1.6	I-PEX
221	Quanta	QADCGC6_WL_M (Main) QADCGC6_WL_A (Aux)	PIFA	0.7 1.2	N/A	I-PEX
222	Quanta	QADCGC5_WL_M (Main) QADCGC5_WL_A (Aux)	PIFA	0.4 -1.0	N/A	I-PEX
223	WHA YU	C037-511122-A (SSR-11648) (ANT1) C037-511123-A (SSR-11649) (ANT2)	PIFA	3.3 (w/o loss) 3.1 (w/o loss)	NA	MHF
224	ACON	ACTA-01 (Tx1) ACTA-01 (Tx2)	PIFA	-0.52 1.67	1.49 1.50	IPEX, MHF, U.FL-LP
225	WHA YU	C435-520096-A (Tx1) C435-520096-A (Tx2)	PIFA	1.24 2.67	0.71 0.71	TNOV
226	WHA YU	PSAM-006 (Tx1) PSAM-006 (Tx2)	PIFA	1.24 2.67	0.71 0.71	TNOV
227	ACON	APP8P-700271 (Tx1) APP8P-700272 (Tx2)	PIFA	0.90 0.86	1.40 1.88	IPEX, MHF, Hirose,
228	ACON	ACTA-03-01 (Tx1) ACTA-03-02 (Tx2)	PIFA	1.31 1.42	1.90 2.70	IPEX, MHF, Hirose, U.FL
229	Smart Approach	SE-005B0-ECUC0 (Tx1) SE-005A0-ECUC0 (Tx2)	PIFA	-0.9 0.15	1.45 1.37	IPEX
230	YAGEO	CAN4313961012501B (Tx1) CAN4313961022501B (Tx2)	PIFA	-1.07 1.48	1.51 1.41	Hirose U.FL-LP IPEX MHF or equivalent
231	YAGEO	CAN4313961012501B (Tx1) CAN4313961032501B (Tx2)	PIFA	-1.07 1.48	1.51 1.41	Hirose U.FL-LP IPEX MHF or equivalent
232	Quanta	DQ643139000 (Tx1) DQ643139000 (Tx2)	PIFA	2.0 1.7	-0.82 -1.05	IPEX
233	Wellshine	DQ67KJQUT33 (TX1) DQ67KJQUT33 (TX2 or RX2)	PIFA	1.17 -0.06	0.77 1.75	IPEX
234	Wellshine	DQ67KJQUT35 (Tx1) DQ67KJQUT36 (Tx2 or RX2)	PIFA	2.03 0.05	1.00 1.80	IPEX
235	WhaYu	C680-520278-A (Tx1) C680-520277-A (Tx2)	PIFA	1.92 -1.03	0.64 1.72	FAF
236	Wellshine	DQ67KJQUT35 (Tx1) DQ67KJQUT36 (Tx2)	PIFA	2.03 0.05	1.00 1.80	IPEX
237	WhaYu	C680-520278-A (Tx1) C680-520277-A (Tx2)	PIFA	1.92 -1.03	0.64 1.72	FAF
238	WhaYu	C680-520279-A (Tx1) C680-520279-A (Tx2)	PIFA	1.09 -0.55	0.72 1.89	FAF
239	Smart Approach	SE-005B0-ECUC0 (Tx1) SE-005AA-ECUC0 (Tx2)	PIFA	-1.73 -1.15	1.45 1.37	IPEX
240	WNC	81.EJT15.GRZ (Main) 81.EJT15.GSA (Aux)	PIFA	0.66 -1.78	1.18 1.64	IPEX
241	WNC	81.EJT15.GSB(Main) 81.EJT15.GSC(Aux)	PIFA	-0.06 -0.68	1.24 1.68	IPEX



242	WNC	81.EJT15.GTR (Main) 81.EJT15.GTS (Aux)	PIFA	2.93 1.19	NA	IPEX
243	WhaYu	C435-520114-A (Tx1) C435-520115-A (Tx2)	PIFA	-0.50 -0.24	1.325 1.337	TNOV
244	WNC	81.EJT15.GTU (Main) 81.EJT15.GTV (Aux)	PIFA	-1.03 -2.86	NA	BW
245	Brito	WPE-01-110 (Main)	PIFA	-0.54	1.28	I-PEX
246	WNC	81.EL115.G42 (Main) 81.EL115.G19 (Aux)	PIFA	-4.49 -2.09	NA	I-PEX
247	ACON	AWP6P (Main) AWP6P (Aux)	PIFA	-0.19 -0.99	0.86 0.86	I-PEX, Hirose, U.FL-LP
248	Foxconn	WDAN-T1WM (Main) WDAN-T1WM (Aux)	PIFA	1.47 1.38	0.909 0.909	I-PEX
249	WIESON	GY196C098-042 (Main) GY196C098-040 (Aux)	PIFA	0.87 -0.42	NA	MHF
250	WHAYU	C435-520023-A (Main) C435-520024-A (Aux)	PIFA	1.74 1.56	1.73 2.43	TNOV
251	WNC	81.EK515.G13 (Main) 81.EK515.G14 (Aux)	PIFA	0.30 0.39	1.96 2.67	IPEX
252	Smart Approach Co., Ltd.	SE-ECA70-002 (Tx1) SE-ECA70-001 (Tx2)	PIFA	1.03 0.60	1.14 1.74	IPEX
253	WNC	81.EEW15.G40 (Tx1) 81.EEW15.G41 (Tx2)	PIFA	0.80 -0.32	1.38 1.91	IPEX
254	Smart Approach Co., Ltd.	SE-ECC61-001 (Tx1) SE-ECC61-002 (Tx2)	PIFA	2.89 1.72	0.80 1.23	IPEX
255	MAG.LAYERS	FPA-2423-25GC1-A1 (Tx1) PCA-2111-25GC1-A1 (Tx2)	PIFA	1.77 2.17	NA	IPEX
256	ZTX	ZTX-A162-Q18000-00 (Tx1) ZTX-A162-Q18000-00 (Tx2)	PIFA	2.014 1.742	NA	IPEX
257	ACON	APM8P-700016 (Main) APM8P-700017 (Aux)	PIFA	2.79 0.74	1.48 2.09	IPEX, MHF, U.FL-LP
258	YAGEO	CAN4313WICO03241 (Main) CAN4313WICO03242 (Aux)	PIFA	2.32 1.85	1.77 2.61	Hirose, U.FL-LP, IPEX, MHF
259	ACON	APM8P-700018 (Tx1) APM8P-700019 (Tx2)	PIFA	2.66 2.27	1.72 2.53	IPEX, MHF, U.FL-LP
260	WNC	81.EK515.G15 (Main) 81.EK515.G16 (Aux)	PIFA	2.36 1.13	1.94 2.76	IPEX

### New Antenna from 261~279 (Total : 19)

261	WNC	WNC003 (Main) WNC003 (Aux)	PIFA	-0.10 2.30	1.22 1.48	RF
262	TE Connectivity	1556465-1 TBN003 (Tx1) 1556466-1 TBN003 (Tx2)	PIFA	-0.23 -0.49	1.52 1.64	MI-113
263	ARISTOTLE	RFA-02-G03-70-565 (Ant 1) RFA-02-G03-70B-335 (Ant 2)	PIFA	3.3 2.3	NA	TNOV
264	WHA YU	C497-520055-A (L) C497-520056-A (R)	PIFA	1.23 2.41	NA	FD
265	Brito	WPB-01-110	Dipole	-0.48	NA	IPEX
266	ACON	APP8P-700341 (Main) APP8P-700342 (Aux)	PIFA	1.10 1.99	1.03 1.21	IPEX, MHF, U.FL-L(P)
267	Smart Approach	SE-ECLA1-001 (Main) SE-ECLA1-002 (Aux)	PIFA	2.53 2.92	1.20 1.39	IPX
268	JEM	IA-110027 (13B130-FP7510) (Main) IA-110028 (13B130-FP7511) (Aux)	PIFA	1.62 0.23	NA	RF
269	WGT	EGEC1WIPB01+A (13B130-FP7020) (Main)	PIFA	-0.12 -0.08	NA	IPEX
270	JEM	IA110035(13B130-FP8511) (Main) IA110036(13B130-FP8510) (Aux)	PIFA	-0.31 0.01	NA	RF
271	WGT	EGES1WIPB01+B(13B130-FB8020) (Main)	PIFA	-0.45 0.72	NA	IPEX
272	JEM	13B130-FA3011 (IA100057) (Main) 13B130-FA3010 (IA100058) (Aux)	PIFA	1.04 0.53	NA	RF
273	JEM	13B130-FA3011 (IA100XXX) (Main) 13B130-FA3010 (IA100XXX) (Aux)	PIFA	0.56 -1.28	NA	RF

274	WGT	EGH40WIPB01+A(22GH4110-10) (Main) EGH40WIPB02+A(22GH4110-00) (Aux)	PIFA	-0.56 -1.28	NA	IPEX
275	JEM	13B130-FB6020 (Main) 13B130-FB6030 (Aux)	PIFA	1.32 -0.59	NA	RF
276	WGT	EGMB4WIPB01+A(13B130-FB6000) (Main)	PIFA	2.36 2.14	NA	IPEX
277	JEM	IA1000XXX (Main) IA100XXX (Aux)	PIFA	-0.62 -3.23	NA	RF
278	WGT	EGMB5WIPB01+A (Main) EGMB5WIPB02+A (Aux)	PIFA	1.16 -0.88	NA	IPEX
279	Yong-Shun Technolog	AN-PAPNIPK01	PIFA	3.24	0.73	IPEX