

EC25-J, EC25-J MINIPCIE Antenna List of TELEC/JATE (018-190011)

Antenna				Gain Specification	File name of Specification
Index	Type	Manufactory	Model Name	Max Gain(dBi) (Limited: FDD \geq 3; TDD \leq 4)	
1	PCB	HCTm CO.,LTD	NEW BRASSY	-5.66 for WCDMA B8, LTE B8 - 0.61 for WCDMA B1 ,LTE B1 - 4.60 LTE B41	<i>HCT_NEW BRASSY_MAIN ANTENNA_160107.pdf</i>
2	PCB	HCTm CO.,LTD	NEW BRASSY	-1.82 for WCDMA B8, LTE B8 - 6.25 for WCDMA B1, LTE B1 -7.03 LTE B41	<i>HCT_NEW BRASSY_MIMO ANTENNA_160107.pdf</i>
3	PCB	IDY	AN0727-64DP5B5M-I / AN0727-64DP5WSM-I	0.5 \pm 0.7dBi @ 700 ~ 960 MHz 2.0 \pm 0.7dBi @ 1710 ~ 2700 MHz 4.5 \pm 0.7dBi @ 1575.42 MHz	<i>AN0727-64DP5xSM-I_SPEC_Rev2.0_20150801R0.pdf</i>
4	PCB	IDY	AN0727-64SP6B5M-I / AN0727-64SP6WSM-I	- 0.9 dBi @ 700 ~ 960 MHz 2.0 dBi @ 1710 ~ 2700 MHz \leq 3.0 dBi @ 1430.4~1460.4MHz	<i>AN0727-64SP6xSM-I_SPEC_Rev2.2_201508901R0.pdf</i>
5	Monopole	IDY	AN0821-67A01WSM-I / AN0821-67A01BSM-I	0.5 \pm 1dBi @ 824~ 960 MHz 2.0 \pm 1 dBi @ 1710 ~ 1980 MHz 2.5 \pm 1 dBi @ 1980.1 ~ 2170 MHz \leq 3.0 dBi @ 1430.4~ 1460.4MHz	<i>AN0821-67A01xSM-I_SPEC_Rev2.2_20150901R0.pdf</i>
6	Monopole	IDY	C1467-510015-A-I	\leq 3.0 dBi	<i>C1467-510015-A-I_SPEC_Rev2.2_20150901R0.pdf</i>
7	PCB	IDY	DR0727-9001SM-I	0.2 dBi @ 700 ~ 960 MHz 2.0 dBi @ 1710 ~ 2170 MHz 3.0 dBi @ 2300 ~ 2700 MHz	<i>DR0727-9001SM-I_SPEC_Rev1R1_IDY.pdf</i>
8	PCB	IDY	SANT-800_2G_DA-I	3.0 dBi @ low Band 3.0 dBi @ high Band	<i>SANT-800_2G_DA-I_SPEC_Rev2.0_20150801.pdf</i>
9	Monopole	IDY	SW-42F-LTE-B5-I	1dBi	<i>SW-42F-LTE-B5-I_SPEC_Rev1R0_IDY.pdf</i>
10	Monopole	IDY	SW-42F-LTE-B10-I	1dBi	<i>SW-42F-LTE-B10-I_SPEC_Rev1R0_IDY.pdf</i>
11	Monopole	IDY	SW-42F-LTE-B15-I	1dBi	<i>SW-42F-LTE-B15-I_SPEC_Rev1R0_IDY.pdf</i>
12	Monopole	IDY	SW-42F-LTE-B20-I	1dBi	<i>SW-42F-LTE-B20-I_SPEC_Rev1R0_IDY.pdf</i>
13	Monopole	IDY	SW-42F-LTE-B-I	\leq 3.0 dBi	<i>SW-42F-LTE-B-I_SPEC_Rev2R1_IDY.pdf</i>
14	Monopole	IDY	W50-S-V3-I	1dBi@704-960 0-1dBi@1427.9-1510.9 2dBi@1710-2170 2dBi@2400-2690MHz	<i>W50-S-V3-I_SPEC_Rev2R1_IDY.pdf</i>
15	Chip Antenna	INND-LINK	CC35D8	3	<i>35.0 x 5.0 x 4.0 (mm) LTE Full-Band Ceramic Chip Antenna (CC35D8).pdf</i>
16	Ext Antenna	INNO-LINK	INNO-ELDSES-075	3	<i>INNO-ELDSES-075_150128.pdf</i>
17	PCB Antenna	STAF	T16-062-1015	3	<i>STAF_CORP_T16-062-1015_U.FL_(800M Low).pdf</i>
18	PCB Antenna	STAF	13-023	3	<i>STAF_CORP_13-023_U.FL_130mm.pdf</i>
19	Dipole	HANWOOL TECHNOLOGY CO.,LTD.	HW-MULTI-GA-RSMA	2.908	<i>JAPAN_HW-MULTI-GA-RSMA-SPEC_RV2</i>
20	Dipole	HANWOOL TECHNOLOGY CO., LTD	HW-CMULTI-RSMA	2.935	<i>HW-CMULTI-RSMA_150326</i>
21	Dipole	HANWOOL TECHNOLOGY CO., LTD	HW-2045DP-RSMA	2.06	<i>wbk_HW-T2045DP-RSMA(ueue)_100630</i>
22	Dipole	HANWOOL TECHNOLOGY CO., LTD	HW-MULTI-M-SMA-2M	2.962	<i>HW-MULTI-M-SMA-2M_SPEC_150617</i>
23	Dipole	HANWOOL TECHNOLOGY CO., LTD	HW-MULTI-MD-SMA-L	2.939	<i>HW-MULTI-MD-SMA-L_SPEC_En-140819</i>
24	PCB	Antenoca M2M	SR4L002	0.5dBi@698 – 798 MHz 1dBi@824 – 960 MHz 2.5dBi@1710 - 2170 MHz 1.6dBi@2300 – 2400 MHz 2.5dBi@2500 – 2690 MHz	<i>Lucida-LTE-SR4L002-PS-1.2.pdf</i>
25	PCB	Antenoca M2M	SR4C005	0.9dBi@698 – 798 MHz 2.5dBi@824 – 960 MHz 2.5dBi@1710 - 2170 MHz 2.5dBi@2300 – 2400 MHz	<i>Similis-SR4C005-PS-1.1 (1).pdf</i>

26	Monopole	2J-antennae	0758-0961 2J Antennae, 2J520	2.14 dBi	1. 2J520
27	Monopole	2J-antennae	0758-0962 Taoglas, G21.B.301111 cable length 1m	2.7 dBi	2. G21.B.301111
28	Monopole	2J-antennae	0758-0963 Round Solutions, ANT-GXS606	2.14 dBi	3. ANT-GXS606
29	Monopole	2J-antennae	0758-0965 Round Solutions, ANT-GXM602	2.14 dBi	4. ANT-GXM602
30	Monopole	Speed Technology	MF28G	<=3dBi	MF28G.pfd
31	Chip Antenna	Unictron	CC40D9	<=3dBi	LTE Full-Band Chip Antenna(40D5060-CC40D9)_spec-B(Preliminary).pdf
32	SMA PLUG	PAC ELECTRONICS CO., LTD.	DR-RS18-12002	<=3dBi	DR-RS18-12002
33	LTE+3G(56x36mm) Antenna	Hutec	HPLPB	824MHz ~ 960MHz : 1.7dBi 1850MHz ~ 2170MHz : 3.0dBi 2490MHz ~ 2690MHz : 2.5dBi	HPLPB Approval sheet_ecubelabs_ENG_REV_IR
34	3G-band Pattern Antenna	SATORI ELECTRIC CO., LTD.	D007-0027	830MHz ~ 890MHz : 0.66dBi 1920MHz ~ 2170MHz : 2.89dBi	20171124_3G-Pattern Antenna_01-2
35	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel)	IDY Corporation	W50-S-V3-I	817.5MHz~960MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 1710MHz~1977.5MHz: ≦ 3dBi 2400MHz~2690MHz: ≦ 3dBi	W50-S-V3-I_Spec_Rev3R1.pdf
35-1	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel)with Magnet Base and 5m Cable	IDY Corporation	W50-S-V3-I-MB5	817.5MHz~960MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 1710MHz~1977.5MHz: ≦ 3dBi 2400MHz~2690MHz: ≦ 3dBi	
36	3G/4G LTE GSM Multi Band Antenna with 3.5m Cable and SMA male	IDY Corporation	SW-42F-LTE-B-I	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	SW-42F-LTE-B-I_Spec_Rev3R1.pdf
36-1	3G/4G LTE GSM Multi Band Antenna with 3.5m Cable and SMA male + 12m Extesion Cable	IDY Corporation	SW-42F-LTE-B-I-15M	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	
37	3G/4G LTE GSM Multi Band Antenna with 5m Cable and SMA male	IDY Corporation	SW-42F-LTE-B5-I	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	SW-42F-LTE-B5-I_Spec_Rev3R1.pdf
37-1	3G/4G LTE GSM Multi Band Antenna with 5m Cable and SMA male+ 12m Extesion Cable	IDY Corporation	SW-42F-LTE-B5-I-17M	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	
38	3G/4G LTE GSM Multi Band Antenna with 10m Cable and SMA male	IDY Corporation	SW-42F-LTE-B10-I	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	SW-42F-LTE-B10-I_Spec_Rev3R1.pdf
38-1	3G/4G LTE GSM Multi Band Antenna with 10m Cable and SMA male+ 12m Extesion Cable	IDY Corporation	SW-42F-LTE-B10-I-22M	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	
39	3G/4G LTE GSM Multi Band Antenna with 15m Cable and SMA male	IDY Corporation	SW-42F-LTE-B15-I	817.5MHz~960MHz: ≦ 3dBi 1710MHz~2170MHz: ≦ 3dBi 1427.9MHz~1510.9MHz: ≦ 3dBi 2400MHz~2700MHz: ≦ 3dBi	SW-42F-LTE-B15-I_Spec_Rev1R1.pdf

40	3G/4G LTE GSM Multi Band Antenna with 20m Cable and SMA male	IDY Corporation	SW-42F-LTE-B20-I	817.5MHz~960MHz: ≤ 3 dBi 1710MHz~2170MHz: ≤ 3 dBi 1427.9MHz~1510.9MHz: ≤ 3 dBi 2400MHz~2700MHz: ≤ 3 dBi	SW-42F-LTE-B20-L_Spec_Rev1R1.pdf
41	3in1 LTE MIMO + GNSS Antenna with 2m Cable and SMA male	IDY Corporation	iAN250-2M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi(*) 1920MHz~1980MHz: ≤ 3 dBi(*) 2496MHz~2690MHz: ≤ 3 dBi(*) (*Including 100mm cable adapter loss	iAN250_Spec_Rev1R0.pdf (*SMASFN8-1100A-40X00L_Spec_Rev1R0.pdf 100mm cable adapter datasheet
41-1	3in1 LTE MIMO + GNSS Antenna with 3m Cable and SMA male	IDY Corporation	iAN250-3M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi(*) 1920MHz~1980MHz: ≤ 3 dBi 2496MHz~2690MHz: ≤ 3 dBi (*Including 100mm cable adapter loss	
41-2	3in1 LTE MIMO + GNSS Antenna with 2m Cable and SMA male + 12m Extension Cable	IDY Corporation	iAN250-14M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi 1920MHz~1980MHz: ≤ 3 dBi 2496MHz~2690MHz: ≤ 3 dBi	
41-3	3in1 LTE MIMO + GNSS Antenna with 3m Cable and SMA male + 12m Extension Cable	IDY Corporation	iAN250-15M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi 1920MHz~1980MHz: ≤ 3 dBi 2496MHz~2690MHz: ≤ 3 dBi	
42	2x LTE MIMO Antenna with 2m Cable and SMA male	IDY Corporation	iAN251-2M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi(*) 1920MHz~1980MHz: ≤ 3 dBi(*) 2496MHz~2690MHz: ≤ 3 dBi(*) (*Including 100mm cable adapter loss	iAN251_Spec_Rev1R0.pdf (*SMASFN8-1100A-40X00L_Spec_Rev1R0.pdf 100mm cable adapter datasheet
42-1	2x LTE MIMO Antenna with 3m Cable and SMA male	IDY Corporation	iAN251-3M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi(*) 1920MHz~1980MHz: ≤ 3 dBi 2496MHz~2690MHz: ≤ 3 dBi (*Including 100mm cable adapter loss	
42-2	2x LTE MIMO Antenna with 2m Cable and SMA male + 12m Extension Cable	IDY Corporation	iAN251-14M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi 1920MHz~1980MHz: ≤ 3 dBi 2496MHz~2690MHz: ≤ 3 dBi	
42-3	2x LTE MIMO Antenna with 3m Cable and SMA male + 12m Extension Cable	IDY Corporation	iAN251-15M	698MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz: ≤ 3 dBi 1920MHz~1980MHz: ≤ 3 dBi 2496MHz~2690MHz: ≤ 3 dBi	

43	3G/4G LTE GSM Multi Band Antenna with 3m Cable and SMA male	IDY Corporation	DR0727-9001SM-I	810MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	<i>DR0727-9001SM-I_Spec_Rev3R0.pdf</i>
43-1	3G/4G LTE GSM Multi Band Antenna with 3m Cable and SMA male + 12m Extension Cable	IDY Corporation	DR0727-9001SM-I-15M	810MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	
44	3G/4G LTE GSM Multi Band Antenna with 2.5m Cable and SMA male	IDY Corporation	iAN078-2.5M	704MHz~960MHz: ≤ 3 dBi 1427MHz~1511MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	<i>iAN078-2.5M_Spec_Rev1R0.pdf</i>
44-1	3G/4G LTE GSM Multi Band Antenna with 2.5m Cable and SMA male + 12m Extension Cable	IDY Corporation	iAN078-14.5M	704MHz~960MHz: ≤ 3 dBi 1427MHz~1511MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	
45	3G/4G LTE GSM Multi Band Antenna with 3.5m Cable and SMA male	IDY Corporation	iAN078-3.5M	704MHz~960MHz: ≤ 3 dBi 1427MHz~1511MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	<i>iAN078-3.5M_Spec_Rev1R0.pdf</i>
45-1	3G/4G LTE GSM Multi Band Antenna with 3.5m Cable and SMA male + 12m Extension Cable	IDY Corporation	iAN078-15.5M	704MHz~960MHz: ≤ 3 dBi 1427MHz~1511MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	
46	3G/4G LTE Multi Band PCB Antenna with 200mm Cable	IDY Corporation	iAN1398-200	815MHz~960MHz : ≤ 3 dBi 1920MHz~2170MHz: ≤ 3 dBi 1427.9MHz~1510.9MHz: ≤ 3 dBi 1710MHz~1784.9MHz : ≤ 3 dBi	<i>iAN1398-200_Spec_Rev1R1.pdf</i> Rev1R1: 1) Add band 11. (1427.9MHz ~ 1447.9MHz) 2) Add band 3 and band 9. (1710MHz ~ 1784.9MHz) 3) Add maximum Peak Gain specification. ($\leq +3$ dBi)
47	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel), Color: Black	IDY Corporation	AN0727-64DP5B5M-I	700MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	<i>AN0727-64DP5xSM-I_SPEC_Rev3R1.pdf</i>
47-1	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) ,Color: White	IDY Corporation	AN0727-64DP5WSM-I	700MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	
47-2	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color: Black	IDY Corporation	AN0727-64DP5B5M-I-MB5	700MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	
47-3	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color: White	IDY Corporation	AN0727-64DP5WSM-I-MB5	700MHz~960MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1710MHz~2700MHz: ≤ 3 dBi	
48	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel), Color: Black	IDY Corporation	AN0727-64SP6B5M-I	700MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi 2400MHz~2700MHz: ≤ 3 dBi	<i>AN0727-64SP6xSM-I_SPEC_Rev3R1.pdf</i>
48-1	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) ,Color: White	IDY Corporation	AN0727-64SP6WSM-I	700MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi 2400MHz~2700MHz: ≤ 3 dBi	
48-2	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color: Black	IDY Corporation	AN0727-64SP6B5M-I-MB5	700MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi 2400MHz~2700MHz: ≤ 3 dBi	
48-3	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color: White	IDY Corporation	AN0727-64SP6WSM-I-MB5	700MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi 2400MHz~2700MHz: ≤ 3 dBi	

49	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel), Color: Black	IDY Corporation	AN0821-67A01BSM-I	824MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi	AN0821-67A01xSM- I_SPEC_Rev2R3.pdf
49-1	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) ,Color: White	IDY Corporation	AN0821-67A01WSM-I	824MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi	
49-2	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color: Black	IDY Corporation	AN0821-67A01BSM-I-MB5	824MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi	
49-3	3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color: White	IDY Corporation	AN0821-67A01WSM-I-MB5	824MHz~960MHz: ≤ 3 dBi 1430.4MHz~1460.4MHz: ≤ 3 dBi 1710MHz~1980MHz: ≤ 3 dBi	
50	3G/4G LTE GSM Multi Band Antenna with 2.5m Cable and SMA male	IDY Corporation	SANT-800_2G_DA-I	824MHz~885MHz: ≤ 3 dBi 1427.9MHz~1462.9MHz: ≤ 3 dBi 1920MHz~2170MHz: ≤ 3 dBi	SANT-800_2G_DA- I_SPEC_Rev2R1.pdf
51	3G/4G LTE GSM Multi Band Antenna with SMA reverse male (Swivel)	IDY Corporation	C1467-510015-A-I	700MHz~2700MHz: ≤ 3 dBi	C1467-510015-A- I_SPEC_Rev2R3.pdf
51-1	3G/4G LTE GSM Multi Band Antenna with SMA reverse male (Swivel) with Magnet Base and 5m Cable	IDY Corporation	C1467-510015-A-I-MB5	700MHz~2700MHz: ≤ 3 dBi	
52	単一型(V), $\lambda / 2$	Nissei electric co.,LTD	FMM800W-SMAP-L	BAND 1 ant. Gain 2.88 BAND 1 attenuation 0 BAND 1 Net gain 2.88 BAND 1 Polarization V BAND 18/19 ant. Gain 1.9 BAND 18/19 attenuation 0 BAND 18/19 Net gain 1.9 BAND 18/19 Polarization V	FMM800W-SMAP-L 機器仕様書 V2.3.pdf
53	Omni-Directional	pulse	W1910	BAND 1 ant. Gain 2.5 BAND 1 attenuation 0 BAND 1 Net gain 2.5 BAND 1 Polarization V BAND 18/19 ant. Gain 1 BAND 18/19 attenuation 0 BAND 18/19 Net gain 1 BAND 18/19 Polarization V	W1910_W1911.pdf
54	PCB	WHAYU	C1597-510280-A	824 – 960MHz,1710 – 2170MHz $\cong 3$ dBi	C1597-510280-A ANT1 LTE_SRF2018254.pdf
55	Metal Antenna	MITSUMI ELECTRIC CO.,LTD	R16-A203	698-960MHz $\cong 3$ dBi 1447.9-1510.9MHz $\cong 3$ dBi 1710-2170MHz $\cong 3$ dBi 2300-2400MHz $\cong 3$ dBi 2496-2690MHz $\cong 3$ dBi	0424_R16-A203.pdf
56	Dipole	MITSUMI ELECTRIC CO., LTD.	Apex Black Straight TG.30	700-800MHz $\cong 3$ dBi 824-960MHz $\cong 1.5$ dBi 1710-1880MHz $\cong 2.7$ dBi 1850-1990MHz $\cong 2.8$ dBi 1710-2170MHz $\cong 3$ dBi 2400-2700MHz $\cong 3$ dBi 1575.42 MHz $\cong 2.6$ dBi	TG.30.8111.pdf

57	Metal Antenna	MITSUMI ELECTRIC CO., LTD.	R16-A500	699-960MHz ≒ 3dBi 1447.9-1510.9MHz ≒ 3dBi 1710-2170MHz ≒ 3dBi 2300-2400MHz ≒ 3dBi 2496-2690MHz ≒ 3dBi	R16-A500.pdf
58	Metal Antenna	MITSUMI ELECTRIC CO., LTD.	DCA-CA7	729-960MHz ≒ 3dBi 1710-2170MHz ≒ 3dBi 2300-2690MHz ≒ 3dBi	DCA-CA7.pdf
59	Metal Antenna	MITSUMI ELECTRIC CO., LTD.	DA15-D132	700-1000MHz ≒ 3dBi 1700-2700MHz ≒ 3dBi	DA15-D132.pdf
60	Magnetic Antenna	PAC Electronics Co., Ltd.	DR-MA18-02001	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	DR-MA18-02001
61	Omni	WIESON TECHNOLOGIES CO., LTD.	GY115HT467-037	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	GY115HT467-037
62	λ/2短縮型ダイポールアンテナ	NIPPON ANTENNA CO., LTD.	DP-BRO-MI2	800MHz: < -1.0dBi 1500MHz: < -1.0dBi 1700MHz: < 0dBi 200MHz: < -1.0dBi 2500MHz: < -1.0dBi	【市販】LTE 屋外MIMO アンテナ_DP-BRO-MI2_電気特性資料_150911.pdf
63	FPCB Antenna	INTOPS CO., LTD.	SEA9-0185A	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	SEA9-0185A.pdf
64	FPCB Antenna	INTOPS CO., LTD.	SEA9-0184A	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	SEA9-0184A.pdf
65	Magnetic antenna	Shenzhen AFC Antenna Adapter Co., Ltd.	YG-4G-RG174-700-SMAJ-104	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	YG-4G-RG174-700-SMAJ-104.pdf
66	Single type 1/4λ	SE TECH	ANT-SE01-DA	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	ANT-SE01-DA.PDF
67	Single type 1/4λ	SE TECH	ANT-SE11-MA	699 - 960MHz: ≒ 3dBi 1447.9 - 1510.9MHz: ≒ 3dBi 1710 - 2170MHz: ≒ 3dBi 2300 - 2400MHz: ≒ 3dBi 2496 - 2690MHz: ≒ 3dBi	ANT-SE11-MA.PDF

68	Quad-Band PCB antenna	Taoglas	FXP40.07.0085A	824-896 MHz \leq -3.83dBi 880 - 960 MHz \leq -3.25dBi 1710-1880MHz \leq 1.37dBi 1850-1990 MHz \leq 1.03dBi	FXP40.07.0085A.PDF
69	penta band Cellular Higned SMA male Monopole	Taoglas	TG.09.0113	824-896 MHz \leq 2.0dBi 880 - 960 MHz \leq 2.0dBi 1710-1880MHz \leq 2.8dBi 1850-1990 MHz \leq 2.8dBi 1710-2170 MHz \leq 2.0dBi	TG_09_0113_1.pdf
70	Single type 1/4 λ	NISSEI ELECTRIC CO., LTD.	ANTP0450-C0534-STD	699 - 960MHz: \leq -0.02dBi 1425- 1660MHz: \leq 2.85dBi 1700 - 2170MHz: \leq 2.46dBi 2300 - 2400MHz: \leq 2.23dBi 2496 - 2690MHz: \leq 2.23dBi	ANTP0450
71	Single type 1/4 λ	NISSEI ELECTRIC CO., LTD.	ANTP0440-C0531-STD	815 - 960MHz: \leq 1.68dBi 1425 - 1510MHz: \leq 1.48dBi 1710 - 2170MHz: \leq 2.34dBi	ANTP0440
72	Dipole Antenna	NIPPON ANTENNA CO., LTD.	DP-BRO	815 - 960MHz: \leq -0.6dBi 1700 - 2170MHz: \leq 0.9dBi	DP-BRO
73	Dipole Antenna	NIPPON ANTENNA CO., LTD.	DP-BRO-AD	815- 960MHz: \leq -0.6dBi 1710 - 2170MHz: \leq -0.6dBi	DP-BRO-AD
74	Dipole Antenna	NIPPON ANTENNA CO., LTD.	DP-BRO-RE	815 - 960MHz: \leq -1.7dBi 1447.9 - 1510.9MHz: \leq -0.9dBi 1745 - 1785MHz: \leq -0.6dBi 1920 - 2170 MHz: \leq -1.0dBi 2496 - 2690MHz: \leq -3.1dBi	DP-BRO-RE
75	FPCB Antenna	BLUEBIRD	RT101-MAIN	699 - 960MHz: \leq 1dBi 1710 - 2170MHz: \leq 2dBi 2300 - 2400MHz: \leq 2dBi 2496 - 2690MHz: \leq 2dBi	RT101-MAIN.XLS
76	LTE Antenna	WIESON TECHNOLOGIES CO., LTD.	GY115HT467-017	698 - 960MHz: \leq 1.66dBi 1771- 2170 MHz: \leq 1.8dBi 2305- 2690MHz: \leq 2.97dBi	GY115HT467-017
77	PIFA	Braveridge Co.,Ltd	BLTBRJT01ZA	0dBi	BLTBRJT01ZA
78	dipole	NISSEI ELECTRIC CO., LTD.	ANTP0417-P1035-PCB	3dBi	ANTP0417-P1035-PCB
79	dipole	NISSEI ELECTRIC CO., LTD.	ANT2013-161B/U-W	3dBi	ANT2013
80	LTE Antenna	HANWOOL TECHNOLOGY CO., LTD	HWI-LTEJP-100GDS	1920MHz ~ 2170MHz : 1.7 dBi 1710MHz ~ 1880MHz : 2.6 dBi 880MHz ~ 960MHz : 1.0 dBi 830MHz ~ 890MHz : 1.9 dBi	APPROVAL SHEET_(SCSPRO)_HWI-LTEJP-100GDS_181212
81	Omni Antenna	MasterWave Technology Co., Ltd.	M7203V-B	698- 960MHz: \leq 1.9dBi 1710 - 2170MHz: \leq 2.5dBi 2300 - 2690MHz: \leq 2.7dBi	M7203V-B (98110ZNF000) LTE Omni-Test Report_v1_20181116
82	Omni Antenna	MasterWave Technology Co., Ltd.	98110ZNF000	698- 960MHz: \leq 1.9dBi 1710 - 2170MHz: \leq 2.5dBi 2300 - 2690MHz: \leq 2.7dBi	98110ZNF000 承認書 - all (1)
83	Dipole Antenna	Aristotle Enterprises INC.	RFA-LTE-T42-U-M70-1	699 - 960MHz: \leq 0.9dBi 1710 - 2170MHz: \leq 2.5dBi 2300 - 2700MHz: \leq 3dBi	RFA-LTE-T42-U-M70-1[1]
84	PCB Antenna	Cortec technology inc	NB1445-A100BX	698- 960MHz: \leq -0.09dBi 1710- 2700MHz: \leq 2.68dBi	NB1445-A100BX-Spec-2018.08.07.奇邑

85	SMD Antenna	Antenova Ltd.,	Lucida	698 – 798 MHz \cong 0.5dBi 824 – 960 MHz \cong 1.0dBi 1710 - 2170 MHz \cong 2.5dBi 2300 – 2400 MHz \cong 1.6dBi 2500 – 2690 MHz \cong 2.5dBi	Lucida LTE-SR4L002-PS-1.2
86	Chip Antenna	Unictron	CC26DH	824 - 960MHz: \leq 3dBi 1710 - 2170MHz: \leq 3dBi	CC26DH_unictron.pdf
87	Ultra-wideband I-bar Antenna	Taoglas	W93L-0001-0028	698 - 960MHz: \leq 3dBi 1575.42MHz: \leq 3dBi 1710 - 2700MHz: \leq 3dBi	V8_External_LTE_Antenna_Spec.pdf
88	Chip Antenna	MITSUBISHI MATERIAL	AM11DP-ST01T	815 - 960MHz: \leq 3dBi 1427.9 - 1495.9MHz: \leq 3dBi 1710 - 2170MHz: \leq 3dBi	技RJC-19B05.pdf SPQ-18J51(AM11DP-ST01T).pdf
89	FPCB Antenna	Intops..	SEA9-0212A (Main / GPS Antenna) SEA9-0213A (Diversity Antenna)	822 - 876MHz: \cong 3dBi 1950 - 2140MHz: \cong 3dBi 1575.42MHz: \cong 3dBi	SEA9-0212A.PDF SEA9-0213A.PDF
90	Metal Antenna	FORTE.INC	7O097A-36	790MHz ~2170MHz: \leq 3dBi	ES820-J LTE Antenna 7O097A Specification 19.3.26.pdf
91 (MIMO1)	PIFA (with 3m cable +1m cable)	IDY	iAN250-4M	Refer specification	iAN250_Spec_Rev2R0.pdf For a band whose peak gain exceeds the standard, the adapter cable or the extension cable with a loss more than that stated in the attenuation section is required.
(MIMO2)	PIFA (with 3m cable +1m cable)	IDY	iAN250-4M	Refer specification	iAN250_Spec_Rev2R0.pdf For a band whose peak gain exceeds the standard, the adapter cable or the extension cable with a loss more than that stated in the attenuation section is required.
92 (MIMO1)	PIFA (with 3m cable +1m cable)	IDY	iAN251-4M	Refer specification	iAN251_Spec_Rev2R0.pdf For a band whose peak gain exceeds the standard, the adapter cable or the extension cable with a loss more than that stated in the attenuation section is required.
(MIMO2)	PIFA (with 3m cable +1m cable)	IDY	iAN251-4M	Refer specification	iAN251_Spec_Rev2R0.pdf For a band whose peak gain exceeds the standard, the adapter cable or the extension cable with a loss more than that stated in the attenuation section is required.
93	Dipole (with 3m cable +1m cable)	IDY	DR0727-9001SM-I-4M	Refer specification	DR0727-9001SM-I_Spec_RevN4R0.pdf
94	Dipole (with 2.5m+1m cable)	IDY	iAN078-3.5ME	Refer specification	iAN078-2.5M-3.5ME-14.5M_Spec_RevN2R0.pdf
95	Dipole (with 3.5m+1m cable)	IDY	iAN078-4.5M	Refer specification	iAN078-3.5M-4.5M-15.5M_Spec_RevN2R1.pdf
96	Dipole	IDY	iAN067	Refer specification	iAN067_Spec_Rev1R2.pdf
97	Dipole	IDY	iAN067Z	Refer specification	iAN067_Spec_Rev1R2.pdf (iAN067 without "IDY" logo.)
98	Dipole (with 5m cable)	IDY	iAN067-MB5	Refer specification	iAN067_Spec_Rev1R2.pdf
99	Dipole (with 5m cable)	IDY	iAN067Z-MB5	Refer specification	iAN067_Spec_Rev1R2.pdf (iAN067-MB5 without "IDY" logo.)
100 (LTE1)	Dipole (with 2.5m cable)	IDY	iAN261-L2GW	Refer specification	iAN261-L2GW_Spec-RevN1R2.pdf
(LTE2)	Dipole (with 2.5m cable)	IDY	iAN261-L2GW	Refer specification	iAN261-L2GW_Spec-RevN1R2.pdf
101 (LTE1)	Dipole (with 2.5m cable +1m cable)	IDY	iAN261-L2GW-3.5M	Refer specification	iAN261-L2GW_Spec-RevN1R2.pdf
(LTE2)	Dipole (with 2.5m cable +1m cable)	IDY	iAN261-L2GW-3.5M	Refer specification	iAN261-L2GW_Spec-RevN1R2.pdf
102 (LTE1)	Dipole (with 2.5m cable +12m cable)	IDY	iAN261-L2GW-14.5M	Refer specification	iAN261-L2GW_Spec-RevN1R2.pdf
(LTE2)	Dipole (with 2.5m cable +12m cable)	IDY	iAN261-L2GW-14.5M	Refer specification	iAN261-L2GW_Spec-RevN1R2.pdf

103 (LTE1)	Dipole (with 2.5m cable)	IDY	iAN261-L2ZZ	Refer specification	iAN261-L2ZZ_Spec-RevN1R2.pdf
(LTE2)	Dipole (with 2.5m cable)	IDY	iAN261-L2ZZ	Refer specification	iAN261-L2ZZ_Spec-RevN1R2.pdf
104 (LTE1)	Dipole (with 2.5m cable +1m cable)	IDY	iAN261-L2ZZ-3.5M	Refer specification	iAN261-L2ZZ_Spec-RevN1R2.pdf
(LTE2)	Dipole (with 2.5m cable +1m cable)	IDY	iAN261-L2ZZ-3.5M	Refer specification	iAN261-L2ZZ_Spec-RevN1R2.pdf
105 (LTE1)	Dipole (with 2.5m cable +12m cable)	IDY	iAN261-L2ZZ-14.5M	Refer specification	iAN261-L2ZZ_Spec-RevN1R2.pdf
(LTE2)	Dipole (with 2.5m cable +12m cable)	IDY	iAN261-L2ZZ-14.5M	Refer specification	iAN261-L2ZZ_Spec-RevN1R2.pdf
106 (LTE1)	Dipole (with 1.5m cable)	IDY	iAN260-L2GW	Refer specification	iAN260-L2GW_Spec_Rev1R0a.pdf
(LTE2)	Dipole (with 1.5m cable)	IDY	iAN260-L2GW	Refer specification	iAN260-L2GW_Spec_Rev1R0a.pdf
107	Carrier type Antenna	Hanwool Technology	HWI-LTJP-MFHC100	841 - 894MHz: $\leq 1dBi$ 1920 - 2170MHz: $\leq 3dBi$	LTE_main.pdf
108	Carrier type Antenna	Hanwool Technology	HWI-LTJP-DFHC100	841 - 894MHz: $\leq 0dBi$ 1920 - 2170MHz: $\leq 1dBi$	LTE_Diversity.pdf
109	External Antenna	Shanghai Saintenna Wireless Technology Co., Ltd.	SAA31338A	< 3dBi	SAA31338A 全频段吸盘胶棒天线规格书.pdf
110	Flexible Printed Circuit Board Antenna	ShenZhen Powerful Technology Co.,Ltd.	YL0123-4G-A1	699 - 960MHz: $\leq 1dBi$ 1447.9 - 1510.9MHz: $\leq 1dBi$ 1710 - 2170MHz: $\leq 1dBi$ 2300 - 2400MHz: $\leq 1dBi$ 2496 - 2690MHz: $\leq 1dBi$	威盛-JT01-YL0123-4G-A1.pdf
111	Chip Antenna	EVER GREAT Tech CO., LTD.	ANT9176-BM	1.89	ANT9176(AA01-0025).pdf
112	Monopole	STAF corporation	T17-058-1069	3	No.1_T17-058-1069(1018-436A)_3G/LTE/LPWA マルチバンド対応外部アンテナ_ストレート型 (英語併記).pdf
113	Monopole	STAF corporation	T17-058-1070	3	No.2_T17-058-1070(1018-435A)_3G/LTE/LPWA マルチバンド対応外部アンテナ_L型 (英語併記).pdf
114	Dipole	STAF corporation	T18-078-1127	3	No.3_T18-078-1127_技適申請用資料.pdf
115	Dipole	STAF corporation	T18-079-1128	3	No.4_T18-079-1128_技適申請用資料.pdf
116	Dipole	STAF corporation	T18-029-1102	3	No.5_No.6_T18-029-1102_T18-029-1103_2.5m ツイン_技適申請用資料.pdf
117	Dipole	STAF corporation	T18-029-1103	3	No.5_No.6_T18-029-1102_T18-029-1103_2.5m ツイン_技適申請用資料.pdf
118	Dipole	STAF corporation	T18-077-1107	3	No.7_No.8_T18-077-1107_T18-077-1108_5m ツイン_技適申請用資料.pdf
119	Dipole	STAF corporation	T18-077-1108	3	No.7_No.8_T18-077-1107_T18-077-1108_5m ツイン_技適申請用資料.pdf
120	Monopole	STAF corporation	T18-018-1098	3	No.9_T18-018-1098(1018-456A) 標準品板金アンテナ_技適申請用資料(英語併記版).pdf
121	Monopole	STAF corporation	T18-037-1116	3	No.10_T18-037-1116(1018-474A)_技適申請用資料.pdf
122	Monopole	STAF corporation	T18-051-1120	3	No.11_T18-051-1120(1018-472A)_技適申請用資料(FPCAnt).pdf
123	Monopole	STAF corporation	T18-051-1117	3	No.12_T18-051-1117(1018-469A)_技適申請用資料(FPCAnt_U.FL).pdf
124	Monopole	STAF corporation	T18-051-1118	3	No.13_T18-051-1118(1018-470A)_技適申請用資料(FPCAnt_MHF).pdf
125	Monopole	STAF corporation	T18-051-1119	3	No.14_T18-051-1119(1018-471A)_技適申請用資料(FPCAnt_MHF4L).pdf
126	Dipole	STAF corporation	13-023	3	No.15_T13-023-1043(1018-391A)_技適申請資料_U.FL 130mm.pdf
127	Dipole	STAF corporation	T18-023-1095	3	No.16_T18-023-1095(1018-455A)_技適申請用資料_U.FL 130mm.pdf
128	Dipole	STAF corporation	T16-062-1015	3	No.17_T16-062-1015(1018-418A)_技適申請用資料_docomo&au_U.FL_標準品アンテナ.pdf
129	Dipole	STAF corporation	T16-062-1093	3	No.18_T16-062-1093 (1018-446A)_技適申請用資料.pdf
130	Dipole	STAF corporation	T16-062-1022	3	No.19_T16-062-1022(1018-443A)_技適申請用資料_SoftBank_U.FL 標準品アンテナ.pdf
131	Dipole	STAF corporation	T16-062-1094	3	No.20_T16-062-1094 (1018-451A)_技適申請用資料.pdf
132	Dipole	STAF corporation	T13-023-1001	3	No.21_T13-023-1001(1018-428A)_技適申請用資料_MHF4L 131mm.pdf

133	Dipole	STAF corporation	T13-023-1002	3	No.22_T13-023-1002(1018-444A)_技適申請用資料_MHF4L 195mm.pdf
134	Dipole	STAF corporation	T13-023-1096	3	No.23_T13-023-1096(1018-445A)_技適申請用資料(英語).pdf
135	Dipole	STAF corporation	T16-062-1023	3	No.24_T16-062-1023(1018-447A)_技適申請用資料(docomo&au_MHF).pdf
136	Dipole	STAF corporation	T16-062-1016	3	No.25_T16-062-1016(1018-449A)_技適申請用資料(docomo&au_MHF4L).pdf
137	Dipole	STAF corporation	T16-062-1025	3	No.26_T16-062-1025(1018-452A)_技適申請用資料_SoftBank_MHF 標準品アンテナ.pdf
138	Dipole	STAF corporation	T16-062-1024	3	No.27_T16-062-1024(1018-454A)_技適申請用資料_SoftBank_MHF4L 標準品アンテナ
139	Dipole	STAF corporation	T16-062-1049	3	No.28_T16-062-1049(1018-427A)_技適申請用資料_SoftBank_MHF4L 標準品アンテナ(両面テープなし)
140	FPC Antenna	DONGGUAN IPD INDUSTRIAL CO.,LTD	4G-FPC-L120MM-L	2496 – 2690MHz: ≒ 3dBi 1920 – 1980 MHz: ≒ 3dBi 1710 – 1785MHz: ≒ 3dBi 880 – 915MHz: ≒ 3dBi 830 – 845 MHz: ≒ 3dBi 814 – 849MHz: ≒ 3dBi	4G-FPC-L120MM-L.pdf
141	FPC Antenna	DONGGUAN IPD INDUSTRIAL CO.,LTD	4G-FPC-L120MM-R	2496 – 2690MHz: ≒ 3dBi 1920 – 1980 MHz: ≒ 3dBi 1710 – 1785MHz: ≒ 3dBi 880 – 915MHz: ≒ 3dBi 830 – 845 MHz: ≒ 3dBi 814 – 849MHz: ≒ 3dBi	4G-FPC-L120MM-R.pdf
142	Plastic Antenna	Guangdong Shenglu Telecommunication Tech. Co.,Ltd.	SL10653N	698- 960MHz: ≒ 2dBi 1710 - 2700MHz: ≒ 2dBi	SL10653N規格書
143	FPC	Tian Frequency Intelligent Technology (Kunshan) Co., Ltd.	TP962-E908-ANT	1.23	TP962-E908-ANT test report.ppt
144	Monopole	Taoglas Limited.	TG.09.0113	≒ 3dBi	01_TG.09.0113 & TG.09.0113W
144-1	Monopole	Taoglas Limited.	TG.09.0113W	≒ 3dBi	
145	Dipole	Taoglas Limited.	TG.10.0113	≒ 3dBi	02_TG.10.0113
146	Monopole	Taoglas Limited.	TG.22.0112	≒ 3dBi	03_TG.22.0112
147	Dipole	Taoglas Limited.	TG.30.8113	≒ 3dBi	04_TG.30.8113& TG.30.8113W
147-1	Dipole	Taoglas Limited.	TG.30.8113W	≒ 3dBi	
148	PIFA	Taoglas Limited.	PA.25A	≒ 3dBi	05_PA.25A
149	PIFA	Taoglas Limited.	PA.700J	≒ 3dBi	06_PA.700J
150	Dipole	Taoglas Limited.	PC30.07.0100A	≒ 3dBi	07_PC.30.07.0100A
151	Dipole	Taoglas Limited.	PC104.07.0165C	≒ 3dBi	08_PC104.07.0165C
152	Monopole	Taoglas Limited.	PCS.06.A	≒ 3dBi	09_PCS.06.A
153	Monopole	Taoglas Limited.	PCS.07.A	≒ 3dBi	10_PCS.07.A
154	Monopole	Taoglas Limited.	PCS.66.A	≒ 3dBi	11_PCS.66.A
155	Monopole	Taoglas Limited.	PCS.86.A	≒ 3dBi	12_PCS.86.A
156	Dipole	Taoglas Limited.	FXP14.07.0100A	≒ 3dBi	13_FXP14.07.0100A
157	Monopole	Taoglas Limited.	FXP40.07.0085A	≒ 3dBi	14_FXP40.07.0085A
158	Monopole	Taoglas Limited.	G45.A.201111	≒ 3dBi	17_G45.A.201111
159	Monopole	Taoglas Limited.	GA.107.201111	≒ 3dBi	18_GA.107.201111
160	Monopole	Taoglas Limited.	GA.110.101111	≒ 3dBi	19_GA.110.101111
161	Monopole	Taoglas Limited.	GA.120.301111	≒ 3dBi	20_GA.120.301111
162	Dipole	Taoglas Limited.	GA.130.101111	≒ 3dBi	21_GA.130
162-1	Dipole	Taoglas Limited.	GA.130.201111	≒ 3dBi	
162-2	Dipole	Taoglas Limited.	GA.130.301111	≒ 3dBi	
162-3	Dipole	Taoglas Limited.	GA.130.501111	≒ 3dBi	
163	Dipole	Taoglas Limited.	GA.132.201111	≒ 3dBi	22_GA.132
163-1	Dipole	Taoglas Limited.	GA.132.301111	≒ 3dBi	
163-2	Dipole	Taoglas Limited.	GA.132.501111	≒ 3dBi	

164	Dipole	Taoglas Limited.	GSA.8821.B.301111	≦ 3dBi	23_GSA.8821.B301111
165	Dipole	Taoglas Limited.	GSA.8822.B.301111	≦ 3dBi	24_GSA.8822.B.301111
166	Dipole	Taoglas Limited.	GSA.8826.A301111 Phoenix	≦ 3dBi	25_GSA.8826.A301111
167	Dipole	Taoglas Limited.	GSA.8830.A.201111	≦ 3dBi	27_GSA.8830.A.201111
168	Dipole	Taoglas Limited.	MA203.A.AB.035	≦ 3dBi	32_MA203.A.AB.035
169	PIFA	Taoglas Limited.	MA220.LB.001	≦ 3dBi	33_MA220.LB.001
170	PIFA	Taoglas Limited.	MA230.LBC.002	≦ 3dBi	34_MA230.LBC.002
171	Monopole	Taoglas Limited.	MA275.LBICG.002 (MIMO1)	≦ 3dBi	38_MA275.LBICG.002
171-1	Monopole	Taoglas Limited.	MA275.LBICG.002 (MIMO2)	≦ 3dBi	
172	Monopole	Taoglas Limited.	MA310.A.LB.001	≦ 3dBi	39_MA310.A.LB.001
173	Monopole	Taoglas Limited.	MA350.A.LBICG.003 (MIMO1)	≦ 3dBi	40_MA350.A.LBICG.003
173-1	Monopole	Taoglas Limited.	MA350.A.LBICG.003 (MIMO2)	≦ 3dBi	
174	PIFA	Taoglas Limited.	MA600.A.ABC.006	≦ 3dBi	43_MA600.A.ABC.006 Spartan
175	Monopole	Taoglas Limited.	MA710.B.ABI.003 (MIMO1)	≦ 3dBi	44_MA710.B.ABI.001
175-1	Monopole	Taoglas Limited.	MA710.B.ABI.003 (MIMO2)	≦ 3dBi	
176	Monopole	Taoglas Limited.	MA741.B.BI.001 (MIMO1)	≦ 3dBi	45_MA741.B.BI.001
176-1	Monopole	Taoglas Limited.	MA741.B.BI.001 (MIMO2)	≦ 3dBi	
177	Monopole	Taoglas Limited.	TLS.01.305111	≦ 3dBi	49_TLS.01.305111
178	Monopole	Taoglas Limited.	TG.55.8113	≦ 3dBi	50_TG.55.8113
179	PIFA	Taoglas Limited.	PA.26A	≦ 3dBi	51_PA.26A
180	Dipole	Staf corporation	1018-437A	1.21	Staf_1018-437A_gain table.pdf
181	Metal Antenna	FORTE.INC	7O064F	790MHz ~2170MHz: 2.96dBi	LTE Antenna 7O064FSpecification 0910
182	dipole antenna	NIPPON ANTENNA CO.,LTD	DP-BRO	815-2170MHz: ≦ 3dBi	DP-BRO_TELEC申請資料_120614.pdf
183	The broadband type antenna	NIPPON ANTENNA CO.,LTD	DP-BRO-AD	815-2170MHz: ≦ 3dBi 2595-2625MHz: ≦ 3dBi	DP-BRO-AD_TELEC申請資料_110523.pdf
184	The broadband type antenna	NIPPON ANTENNA CO.,LTD	DP-BRO-RE	815-960MHz: ≦ 3dBi 1447.9-1510.9MHz: ≦ 3dBi 1920-2170MHz: ≦ 3dBi 2496-2690MHz: ≦ 3dBi	DP-BRO-RE_電特性資料_150316.pdf
185	TwoMIMO antenna	NIPPON ANTENNA CO.,LTD	DP-BRO-MI2	719-2690MHz: ≦ 3dBi	DP-BRO-MI2_電氣特性資料_150911.pdf
186	TwoMIMO antenna	NIPPON ANTENNA CO.,LTD	WH-MI2-S	814-960MHz: ≦ 3dBi 1427-2170MHz: ≦ 3dBi	WH-MI2-S_180403.pdf
187	TwoMIMO antenna	NIPPON ANTENNA CO.,LTD	WH-MI2-S-2.5(W)	830-960MHz: ≦ 3dBi 1710-2170MHz: ≦ 3dBi	WH-MI2-S-2.5(W)_180119.pdf
188	FPC antenna	NIPPON ANTENNA CO.,LTD	DP-INF-100(UA)	814-894MHz: ≦ 3dBi 1427.9-1510.9MHz: ≦ 3dBi 1575.42MHz: ≦ 3dBi 1602.5625MHz: ≦ 3dBi 1710-2170MHz: ≦ 3dBi	DP-INF_電氣特性資料_180420.pdf
189	FPC antenna	NIPPON ANTENNA CO.,LTD	DP-920-INF3-100	915.9-928.1MHz: ≦ 3dBi	TELEC_DP-920-INF3-100_180227.pdf
190	FPC antenna	NIPPON ANTENNA CO.,LTD	DP-920-INF1-100	915.9-928.1MHz: ≦ 3dBi	TELEC_DP-920-INF1-100_180227.pdf
191	Whip antenna	NIPPON ANTENNA CO.,LTD	WH-08/2G-L	770-2170MHz: ≦ 3dBi	WH-082G-L_電氣特性資料770-2500MHz_131015.pdf
192	Magnetic Mount	JIAXING GLEAD ELECTRONICS CO.,LTD.	GSM_WA900C1_J3M	824~960MHz; 1710~2170MHz 2.0dBi	GSM_WA900C1_J3M.pdf
193	Magnetic antenna	CHANG HONG Information Co Ltd	DA-0727-07-174-4M-0102	700 - 960MHz: < 3dBi 1700-2700MHz: <3dBi	DA-0727-07-174-4M-0102 (test report).pdf
194	Dipole External Antenna	ARTSIGNAL CO., LTD.	ARTS-MLEM-030	821 - 960MHz: ≦ 2dBi 1710 - 2170MHz: ≦ 3dBi 2496 - 2690MHz: ≦ 4dBi	Approval Sheet_ONFACE_OMDI_LV101xJP_S LTE External Antennna 2019.10.04.pdf
195	LTE FPC Antenna	Shanghai Roadeo Technology Co.,Ltd	7O108A	≦ 3dBi	EF820 LTE Antenna 7O108A FSpecification 19.8.2

196	Monopole	JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD	MCG016J	698 - 960MHz: \cong 2dBi 1710 - 2690MHz: \cong 2dBi	MCG016J.pdf
197	Window antenna	JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD	MCG017J	698 - 960MHz: \leq 2dBi 1710 - 2690MHz: \leq 2dBi	MCG017J.pdf
198	FPCB Antenna	JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD	MCG139J	\cong 2dBi	MCG139J.pdf
199	PCB Antenna	JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD	MCG142J	\cong 3dBi	MCG142J.pdf
200	FPCB Antenna	JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD	MCG146J	\cong 2dBi	MCG146J.pdf
201	LTE Antenna	JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD	MCG410J	\cong 3dBi	MCG410J.pdf
202	FPCB Antenna	ShenZhen Powerful Technology CO., Limited	YL0196-LTE-A0	698 - 960MHz: \cong 2.5dBi 1710 - 2690MHz: \cong 2.5dBi	YL0196-LTE-A0.pdf
203	LTE Antenna	ShenZhen Powerful Technology CO., Limited	YL-4G-W1015	824 - 960MHz: \cong 0.3dBi 1710 - 2700MHz: \cong 3dBi	YL-4G-W1015.pdf
204	LTE Antenna	Shenzhen SKYLink Technology Co.,Ltd	FG06A	\cong 3dBi	FG06A 4G 外置天线规格书.pdf
205	LTE +GPS Antenna	Shenzhen SKYLink Technology Co.,Ltd	GZZJ.SKCA04A	\cong 2dBi	组合天线 GZZJ.SKCA04A.pdf
206	Magnetic antenna with 2m Cable	AMIT Wireless Inc.	RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0200-XX	698- 960MHz: \leq 0dBi 1710 - 2170MHz: \leq 1.5dBi 2300-2700 MHz: \leq 2	01. RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0200-XX.pdf
207	Magnetic antenna with 3m Cable	AMIT Wireless Inc.	RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0300-AX	698- 960MHz: \leq 0dBi 1710 - 2170MHz: \leq 1dBi 2300-2700 MHz: \leq 1.5	02. RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0300-AX.pdf
208	Magnetic antenna with 5m Cable	AMIT Wireless Inc.	RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0500-XX	698- 960MHz: \leq 0dBi 1710 - 2170MHz: \leq 0.5dBi 2300-2700 MHz: \leq 1	03. RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0500-XX.pdf
209	Magnetic antenna with 2m Cable	AMIT Wireless Inc.	GY115HT467-037 + CX-6500SAA0P0200-XX	698- 960MHz: \leq 2.5dBi 1710 - 2690MHz: \leq 3dBi	04. GY115HT467-037 + CX-6500SAA0P0200-XX.pdf
210	Magnetic antenna with 3m Cable	AMIT Wireless Inc.	GY115HT467-037 +CX-6500SAA0P0300-AX	698- 960MHz: \leq 2dBi 1710 - 2690MHz: \leq 2.5dBi	05. GY115HT467-037 +CX-6500SAA0P0300-AX.pdf
211	Magnetic antenna with 5m Cable	AMIT Wireless Inc.	GY115HT467-037 +CX-6500SAA0P0500-XX	698- 960MHz: \leq 1.5dBi 1710 - 2690MHz: \leq 2dBi	06. GY115HT467-037 +CX-6500SAA0P0500-XX.pdf
212	Magnetic antenna with 2m Cable	AMIT Wireless Inc.	GY115HT467-017 + CX-6500SAA0P0200-XX	698- 960MHz: \leq 3dBi 1710 - 2170MHz: \leq 3dBi 2300 - 2690MHz: \leq 3dBi	07. GY115HT467-017 + CX-6500SAA0P0200-XX.pdf
213	Magnetic antenna with 3m Cable	AMIT Wireless Inc.	GY115HT467-017 + CX-6500SAA0P0300-AX	698- 960MHz: \leq 2.5dBi 1710 - 2170MHz: \leq 2.5dBi 2300 - 2690MHz: \leq 2.5dBi	08. GY115HT467-017 + CX-6500SAA0P0300-AX.pdf
214	Magnetic antenna with 5m Cable	AMIT Wireless Inc.	GY115HT467-017 + CX-6500SAA0P0500-XX	698- 960MHz: \leq 2dBi 1710 - 2170MHz: \leq 2dBi 2300 - 2690MHz: \leq 2dBi	09. GY115HT467-017 + CX-6500SAA0P0500-XX.pdf
215	Magnetic antenna with 2m Cable	AMIT Wireless Inc.	YHX-2102SAXX-150 + CX-6500SAA0P0200-XX	698- 960MHz: \leq 1.5dBi 1710 - 2700MHz: \leq 1.5dBi	10. YHX-2102SAXX-150 + CX-6500SAA0P0200-XX.pdf
216	Magnetic antenna with 3m Cable	AMIT Wireless Inc.	YHX-2102SAXX-150 + CX-6500SAA0P0300-AX	698- 960MHz: \leq 1dBi 1710 - 2700MHz: \leq 1dBi	11. YHX-2102SAXX-150 + CX-6500SAA0P0300-XX.pdf
217	Magnetic antenna with 5m Cable	AMIT Wireless Inc.	YHX-2102SAXX-150 + CX-6500SAA0P0500-XX	698- 960MHz: \leq 0.5dBi 1710 - 2700MHz: \leq 0.5dBi	12. YHX-2102SAXX-150 + CX-6500SAA0P0500-XX.pdf

218	Omni-Directional with 2m Cable	AMIT Wireless Inc.	RFA-LTE-T42-U-M70-1+ CX-SAA0SAZ0P0200-XX	698-960MHz: $\leq 0dBi$ 1710 - 2170MHz: $\leq 1.5dBi$ 2300-2700 MHz: ≤ 2	13. RFA-LTE-T42-U-M70-1 + CX-SAA0SAZ0P0200-XX.pdf
219	Omni-Directional with 3m Cable	AMIT Wireless Inc.	RFA-LTE-T42-U-M70-1 + CX-SAA0SAZ0P0300-XX	698-960MHz: $\leq 0dBi$ 1710 - 2170MHz: $\leq 1dBi$ 2300-2700 MHz: ≤ 1.5	14. RFA-LTE-T42-U-M70-1 + CX-SAA0SAZ0P0300-XX.pdf
220	Omni-Directional with 5m Cable	AMIT Wireless Inc.	RFA-LTE-T42-U-M70-1 + CX-SAA0SAZ0P0500-XX	698-960MHz: $\leq 0dBi$ 1710 - 2170MHz: $\leq 0.5dBi$ 2300-2700 MHz: ≤ 1	15. RFA-LTE-T42-U-M70-1 + CX-SAA0SAZ0P0500-XX.pdf
221	Omni-Directional with 2m Cable	AMIT Wireless Inc.	GY115HT467-037 + CX-SAA0SAZ0P0200-XX	698-960MHz: $\leq 2.5dBi$ 1710 - 2690MHz: $\leq 2.5dBi$	16. GY115HT467-037 + CX-SAA0SAZ0P0200-XX.pdf
222	Omni-Directional with 3m Cable	AMIT Wireless Inc.	GY115HT467-037 + CX-SAA0SAZ0P0300-XX	698-960MHz: $\leq 2dBi$ 1710 - 2690MHz: $\leq 2dBi$	17. GY115HT467-037 + CX-SAA0SAZ0P0300-XX.pdf
223	Omni-Directional with 5m Cable	AMIT Wireless Inc.	GY115HT467-037 + CX-SAA0SAZ0P0500-XX	698-960MHz: $\leq 1.5dBi$ 1710 - 2690MHz: $\leq 1.5dBi$	18. GY115HT467-037 + CX-SAA0SAZ0P0500-XX.pdf
224	Omni-Directional with 2m Cable	AMIT Wireless Inc.	GY115HT467-017 + CX-SAA0SAZ0P0200-XX	698-960MHz: $\leq 3dBi$ 1710 - 2170MHz: $\leq 3dBi$ 2300 - 2690MHz: $\leq 3dBi$	19. GY115HT467-017 + CX-SAA0SAZ0P0200-XX.pdf
225	Omni-Directional with 3m Cable	AMIT Wireless Inc.	GY115HT467-017+ CX-SAA0SAZ0P0300-XX	698-960MHz: $\leq 2.5dBi$ 1710 - 2170MHz: $\leq 2.5dBi$ 2300 - 2690MHz: $\leq 2.5dBi$	20. GY115HT467-017 + CX-SAA0SAZ0P0300-XX.pdf
226	Omni-Directional with 5m Cable	AMIT Wireless Inc.	GY115HT467-017 + CX-SAA0SAZ0P0500-XX	698-960MHz: $\leq 2dBi$ 1710 - 2170MHz: $\leq 2dBi$ 2300 - 2690MHz: $\leq 2dBi$	21. GY115HT467-017 + CX-SAA0SAZ0P0500-XX.pdf
227	Omni-Directional with 2m Cable	AMIT Wireless Inc.	YHX-2102SAXX-150 + CX-SAA0SAZ0P0200-XX	698-960MHz: $\leq 1.5dBi$ 1710 - 2700MHz: $\leq 1.5dBi$	22. YHX-2102SAXX-150 + CX-SAA0SAZ0P0200-XX.pdf
228	Omni-Directional with 3m Cable	AMIT Wireless Inc.	YHX-2102SAXX-150 + CX-SAA0SAZ0P0300-XX	698-960MHz: $\leq 1dBi$ 1710 - 2700MHz: $\leq 1dBi$	23. YHX-2102SAXX-150 + CX-SAA0SAZ0P0300-XX.pdf
229	Omni-Directional with 5m Cable	AMIT Wireless Inc.	YHX-2102SAXX-150 + CX-SAA0SAZ0P0500-XX	698-960MHz: $\leq 2dBi$ 1710 - 2700MHz: $\leq 2dBi$	24. YHX-2102SAXX-150 + CX-SAA0SAZ0P0500-XX.pdf
230	5in1 LTE MIMO + 2.4G MIMO + GNSS Antenna with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SAW9-121Z0300	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	25. ZPF-1003SAW9-121Z0300.pdf
231	5in1 LTE MIMO +2.4G MIMO+ GNSS Antenna with 5m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SAW9-121Z0500	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 1dBi$	26. ZPF-1003SAW9-121Z0500.pdf
232	dipo Antenna	Whu Yu Industrial Co., Ltd.	C381-690270-A (SRF2017673)	698-960MHz: $\leq 3dBi$ 1710 - 2700MHz: $\leq 3dBi$	27. C381-690270-A (SRF2017673).pdf
233	dipo Antenna	Aristotle Enterprises Inc.	RFA-LTE-T42-U-M70-1	698-960MHz: $\leq 3dBi$ 1710 - 2700MHz: $\leq 3dBi$	28. RFA-LTE-T42-U-M70-1.pdf
234	IP-67 Omni-Directional	Joymax Electronics Co., Ltd.	YHX-2102SAXX-150	698-960MHz: $\leq 2dBi$ 1710 - 2700MHz: $\leq 2dBi$	29. YHX-2102SAXX-150.pdf
235	4in1 LTE MIMO + 2.4G MIMO Antenna with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SAW9-121P0300	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	30. ZPF-1003SAW9-121P0300.pdf
236	4in1 LTE MIMO +2.4G MIMO Antenna with 5m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SAW9-121P0500	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	31. ZPF-1003SAW9-121P0500.pdf
237	4in1 LTE MIMO x2 with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	YPF-1003SAW9-121P0300	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	32. YPF-1003SAW9-121P0300.pdf
238	4in1 LTE MIMO x2 with 5m Cable and SMA male	Joymax Electronics Co., Ltd.	YPF-1003SAW9-121P0500	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	33. YPF-1003SAW9-121P0500.pdf
239	3in1 LTE MIMO + 2.4G x1 Antenna with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SACX-121P0300	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	34. ZPF-1003SACX-121P0300.pdf
240	3in1 LTE MIMO + 2.4G x1 Antenna with 5m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SACX-121P0500	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	35. ZPF-1003SACX-121P0500.pdf
241	3in1 LTE MIMO + GNSS Antenna with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SADX-121P0300	698-960MHz: $\leq 0dBi$ 1710 - 2700MHz: $\leq 3dBi$	36. ZPF-1003SADX-121P0300.pdf

242	3in1 LTE MIMO + GNSS Antenna with 5m Cable and SMA male	Joymax Electronics Co., Ltd.	ZPF-1003SADX-121P0500	698-960MHz: $\leq 0dBi$ 1710-2700MHz: $\leq 3dBi$	37. ZPF-1003SADX-121P0500.pdf
243	2in1 LTE MIMO Antenna with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	YHF-8045SAWX-121P0300	698-960MHz: $\leq 1dBi$ 1710-2700MHz: $\leq 3dBi$	38. YHF-8045SAWX-121P0300.pdf
244	2in1 LTE MIMO Antenna with 3m Cable and SMA male	Joymax Electronics Co., Ltd.	YHF-8045SAWX-121P0500	698-960MHz: $\leq 1dBi$ 1710-2700MHz: $\leq 3dBi$	39. YHF-8045SAWX-121P0500.pdf
245	LTE Antenna	Aristotle Enterprises Inc.	RFA-LTE-AP770-70B150	698-960MHz: $\leq 0dBi$ 1710-2700MHz: $\leq 2dBi$	40. RFA-LTE-AP770-70B150.pdf
246	Patch antenna	Joymax Electronics Co., LTD.	QPF-A051SA5X-508	824-960MHz: $\leq 3dBi$ 1710-2170MHz: $\leq 3dBi$	QPF-A051SA5X-508
247	PCB Antenna	Alpha Networks Inc.	8LTNE400M0A1G	830~890 MHz: $\leq -0.1dBi$ 1920~2170 MHz: $\leq 2.3dBi$	8LTNE400M0A1G
248	Cable Antenna	WHA YU industrial Co.,LTD	C037-511126	815-960MHz: $\leq 30dBi$ 1920-2170MHz: $\leq 1dBi$	C037-511126-A(SZ1509-0027)(X11)-SPEC--HG様品單-Update2016.12.14(導入新螺絲廠商)[2]
249	Monopole Antenna	Shenzhen Master Wireless Co.,Ltd.	JZC-FPC-4G-Japan-0204-04050-V01	690-960MHz: $\leq 2.0dBi$ 1447.9-1510.9MHz: $\leq 2.5dBi$ 1710-2170MHz: $\leq 3dBi$ 2300-2400MHz: $\leq 3dBi$ 2496-2690MHz: $\leq 3.5dBi$	JZC-FPC-4G-Japan-0204-04050-V01.pdf
250	Dipole Antenna	taoglas antenna solutions	TG.22.0112	800MHz ~2200 MHz $\leq 0dBi$	TG.22.0112 Penta-Band Dipole Antenna 150110
251	PCB Antenna	Alpha networks	8LTNE400M1A1G	830~890 MHz: $\leq 3dBi$ 1920~2170 MHz: $\leq 3dBi$	8LTNE400M1A1G Test Report
252	PCB Antenna	Ever Great tech Co.,Ltd.	ANT9178-BM	2.52	ANT9178-BM(AA01-0027) 承認書-20200117
253	$\lambda / 2$ 短縮型ホイップアンテナ $\lambda/2$ shortened whip antenna	日本アンテナ株式会社 NIPPON ANTENNA CO., LTD.	MWH-MI2-S	800/900MHz帯 -6.0dBi以下 1400MHz帯 -2.5dBi以下 1800/2000MHz帯 -2.0dBi以下	MWH-MI2-S_TELEC_Antenna_20190226
254	FPC	ShenZhen MyAntenna RF Technology Co.,Ltd	M1C.0178-R0A	FDD ≤ 3 ; TDD ≤ 4	99G26-13078Q---D700 4G antenna spec.pdf
255	LTE Antenna	Shanghai Jersoncom Communication Engineering Co., Ltd	7O117A	3	EG830-J LTE Antenna 7O117A Specification 1920200108
256	LTE Antenna	Shanghai Jersoncom Communication Engineering Co., Ltd	7O117B	3	EG830-J LTE Antenna 7O117B Specification 1920200108
257	LTE Antenna	Shanghai Jersoncom Communication Engineering Co., Ltd	7O097A-36	3	翼凯 ES820-J LTE天线 7O097A-36规格书20190311
258	Monopole	TAOGLAS Ltd	TLS.01.01502822	698-960MHz: $\leq 3dBi$ 1575.42MHz: $\leq 3dBi$ 1710-2700MHz: $\leq 3dBi$	TLS.01.01502822 Shockwave 698-960 and 1710-2700MHz Antenna 150mm1.13 IP....pdf
259	PCB Antenna	Nissei Limited CO.	FMM800W-4T-2.5M-BP	$\leq 3dBi$	FMM800W-4T-2.5M-BP 機器仕様書 V2.1SR.pdf
260	PCB Antenna	IDY CO.	iAN261-L2GW	$\leq 3dBi$	iAN261-L2GW_Spec_RevN1R2.pdf
261	PCB Antenna	MOLEX	206866	$\leq 3dBi$	2068663000-AS.pdf
262	Dipole	ASNICS Co., Ltd.	FPC-8872128-2254-IPR70	0.6	FPC-8872128-2254-IPRxxx_V1.0A
263	Dipole	ASNICS Co., Ltd.	FPC-8872128-2254-IPR120	0.5	FPC-8872128-2254-IPRxxx_V1.0A
264	Dipole	ASNICS Co., Ltd.	FPC-8872128-2254-IPR170	0.4	FPC-8872128-2254-IPRxxx_V1.0A
265	Dipole	ASNICS Co., Ltd.	FPC-8872128-2254-IPR220	0.3	FPC-8872128-2254-IPRxxx_V1.0A
266	Dipole	ASNICS Co., Ltd.	FPC-8872128-2254-IPR270	0.2	FPC-8872128-2254-IPRxxx_V1.0A
267	Dipole	ASNICS Co., Ltd.	FPC-8872128-2254-IPR320	0.1	FPC-8872128-2254-IPRxxx_V1.0A
268	Dipole	ASNICS Co., Ltd.	W2L-1750W1900-S160M-SMP250	3	W2L-1750W1900-S160M-SMPxxx_V1.1A
269	Dipole	ASNICS Co., Ltd.	W2L-1750W1900-S160M-SMP1000	2.4	W2L-1750W1900-S160M-SMPxxx_V1.1A

270	Dipole	ASNICS Co., Ltd.	W2L-1750W1900-S160M-SMP3000	0.8	W2L-1750W1900-S160M-SMPxxx_V1.1A
271	Dipole	ASNICS Co., Ltd.	W2L-1750W1900-S160M-SMP5000	-0.8	W2L-1750W1900-S160M-SMPxxx_V1.1A
272	Dipole	ASNICS Co., Ltd.	W2L-1750W1900-S160M-SMP7000	-2.4	W2L-1750W1900-S160M-SMPxxx_V1.1A
273	Dipole	ASNICS Co., Ltd.	W2L-1750W1900-S160M-SMP10000	-4.8	W2L-1750W1900-S160M-SMPxxx_V1.1A
274	Dipole	ASNICS Co., Ltd.	W2L-1775W1850-L203-SMP	3	W2L-1775W1850-L203-SMP_V1.1A
275	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900A1_J1M	3	GSM_WA900A1_JxMA
276	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900A1_J3M	1.2	GSM_WA900A1_JxMA
277	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900A1_J5M	-0.6	GSM_WA900A1_JxMA
278	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900A1_J7M	-2.4	GSM_WA900A1_JxMA
279	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900A1_J10M	-5.1	GSM_WA900A1_JxMA
280	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900C1_J1M	2	GSM_WA900C1_JxMA
281	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900C1_J3M	0.2	GSM_WA900C1_JxMA
282	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900C1_J5M	-1.6	GSM_WA900C1_JxMA
283	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900C1_J7M	-3.4	GSM_WA900C1_JxMA
284	Mono-pole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_WA900C1_J10M	-6.1	GSM_WA900C1_JxMA
285	Dipole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_PL900C1_J	2.5	GSM_PL900C1_JxA
286	Dipole	ASNICS Co., Ltd. (Jiaxing Glead Electronics Co., Ltd.)	GSM_PL900C1_J-W	2.5	GSM_PL900C1_JxA
287	Monopole	Taoglas	TG.08.0113 TG.08.0113B	703~803 MHz \leq 2.12dBi 824~960 MHz \leq -0.37dBi 1400~1500MHz \leq 1.45dBi 1710~1880 MHz \leq 2.48dBi 1920~2170 MHz \leq 2.79dBi 2490~2690 MHz \leq 2.97dBi	①TG.08.0113.pdf ①-1;CAB.011.pdf
288	Monopole	STAF corporation	T17-007-1046	815~960 MHz \leq -7.7dBi 1710~2690 MHz \leq -2.29dBi	②T17-007-1046.pdf
289	4G Main Antenna	Shenzhen Yusheng Communication Equipment Co., Ltd.	G017M	699 - 960MHz: \leq 3dBi 1447.9 - 1510.9MHz: \leq 3dBi 1710 - 2170MHz: \leq 3dBi 2300 - 2400MHz: \leq 3dBi 2496 - 2690MHz: \leq 3dBi	Demacon LTE Antenna Specification_English edition
290	4G Aux Antenna	Shenzhen Yusheng Communication Equipment Co., Ltd.	L288	1800 - 2170MHz: \leq 3dBi 2300 - 2400MHz: \leq 3dBi 2496 - 2690MHz: \leq 3dBi	Demacon LTE Antenna Specification_English edition
291	LTE FPC Antenna	eskywireless Inc	7O120C-36	\leq 3dBi	LTE Antenna 7O120C-36 Specification 20200615(EK810_J).PDF
292	LTE FPC Antenna	eskywireless Inc	7O064F	\leq 3dBi	ES810_J LTE Antenna 7O064FSpecification 190910.PDF

293	1/2 λ Dipole antenna	STAF corporation	T17-046-1132	815 - 2170MHz: ≦ 3dBi	T17-046-1132 技適申請用資料.pdf
294	1/2 λ Dipole antenna	STAF corporation	T17-046-1133	815 - 2170MHz: ≦ 3dBi	T17-046-1133 技適申請用資料.pdf
295	1/2 λ Dipole antenna	STAF corporation	T17-046-1134	2400- 2655MHz: ≦ 3dBi	T17-046-1134 技適申請用資料.pdf
296	1/2 λ Dipole antenna	STAF corporation	T17-046-1135	2400- 2655MHz: ≦ 3dBi	T17-046-1135 技適申請用資料.pdf
297	1/2 λ Dipole antenna	STAF corporation	T17-046-1154	815 - 890MHz: ≦ 3dBi 1428 - 2170MHz: ≦ 3dBi	日本信号_外部アンテナ技適申請用資料(LTE)
298	1/2 λ Dipole antenna	STAF corporation	T17-046-1155	815 - 890MHz: ≦ 3dBi 1428 - 2170MHz: ≦ 3dBi	日本信号_外部アンテナ技適申請用資料(LTE)
299	1/2 λ Dipole antenna	STAF corporation	T17-046-1156	2400- 2655MHz: ≦ 3dBi	日本信号_外部アンテナ技適申請用資料(WiMAX)
300	1/2 λ Dipole antenna	STAF corporation	T17-046-1157	2400- 2655MHz: ≦ 3dBi	日本信号_外部アンテナ技適申請用資料(WiMAX)
301	Monopole	Taoglas Limited.	MA106.C.LB.001	≦ 3dBi	LTE Antenna 70120C-36 Specification 20200615(EK810_J).PDF
302	Monopole	Taoglas Limited.	MA140.A.LB.001	≦ 3dBi	
	Monopole	Taoglas Limited.	MA140.A.LB.006	≦ 3dBi	
	Monopole	Taoglas Limited.	MA140.A.LB.002	≦ 3dBi	
	Monopole	Taoglas Limited.	MA140.A.LB.003	≦ 3dBi	
303	Dipole	Taoglas Limited.	MA208.A.AB.001	≦ 3dBi	
304	Dipole	Taoglas Limited.	MA208.A.AB.007	≦ 3dBi	
305	Monopole	Taoglas Limited.	MA250.A.LBI.009	≦ 3dBi	
	Monopole	Taoglas Limited.	MA250.A.LBI.001	≦ 3dBi	
	Monopole	Taoglas Limited.	MA250.A.LBI.002	≦ 3dBi	
	Monopole	Taoglas Limited.	MA250.A.LBI.003	≦ 3dBi	
306	Monopole	Taoglas Limited.	MA252.A.LB.001	≦ 3dBi	
	Monopole	Taoglas Limited.	MA252.A.LB.005	≦ 3dBi	
	Monopole	Taoglas Limited.	MA252.A.LB.006	≦ 3dBi	
307	Monopole	Taoglas Limited.	MA303.A.LB.002	≦ 3dBi	
	Monopole	Taoglas Limited.	MA303.A.LB.001	≦ 3dBi	
308	Dipole	Taoglas Limited.	GSA.8835.A.101111	≦ 3dBi	
	Dipole	Taoglas Limited.	GSA.8835.A.201111	≦ 3dBi	
	Dipole	Taoglas Limited.	GSA.8835.A.301111	≦ 3dBi	
309	Dipole	Taoglas Limited.	GSA.8822.B.101111	≦ 3dBi	
	Dipole	Taoglas Limited.	GSA.8822.B.201111	≦ 3dBi	
	Dipole	Taoglas Limited.	GSA.8822.B.301111	≦ 3dBi	
310	Dipole	Taoglas Limited.	TG.30.8113	≦ 3dBi	
311	Dipole	Taoglas Limited.	GSA.8842.A.205111	≦ 3dBi	
	Dipole	Taoglas Limited.	GSA.8842.A.305111	≦ 3dBi	
	Dipole	Taoglas Limited.	GSA.8842.A.505111	≦ 3dBi	
312	Monopole	Taoglas Limited.	MA256.A.LBI.001(MIMO1)	≦ 3dBi	
	Monopole	Taoglas Limited.	MA256.A.LBI.001(MIMO2)	≦ 3dBi	ES810_J LTE Antenna 70064FSpecification 190910.PDF
313	PCB + 1m Extention cable (1.5DS)	Shanghai Saintenna Electronic Technology Co. Ltd.	SAA30968A	815 - 960MHz: ≦ 2.45dBi 1700 - 2180MHz: ≦ 2.75dBi 2496 - 2690MHz: ≦ 1.3dBi	1 SAA30968A
314	PCB	KDtech Wireless Innovation	TE-LTFM-68F MINI#3-1	698 - 798MHz: ≦ -3dBi 798 - 960MHz: ≦ 0dBi 1710 - 1880MHz: ≦ 2dBi 1920 - 2670MHz: ≦ 2.5dBi	2 TE-LTFM-68F MINI#3-1

315	PCB + 1m Extention cable (1.5DS)	KDtech Wireless Innovation	TE-LTFM-68F MINI#3-1	698- 798MHz: ≤ -3.7 dB 798- 960MHz: ≤ -0.75 dB 1710 - 1880MHz: ≤ 0.75 dB 1920 - 2670MHz: ≤ 1.1 dB	3 TE-LTFM-68F MINI#3-1+1m cable
316	PCB + 20m Extention cable(5D-2V)	KDtech Wireless Innovation	TE-LTFM-68F MINI#3-1	698- 798MHz: ≤ -7.2 dB 798- 960MHz: ≤ -5.0 dB 1710 - 1880MHz: ≤ -6.5 dB 1920 - 2670MHz: ≤ -7.2 dB	4 TE-LTFM-68F MINI#3-1+20m cable
317	$\lambda/4$ with 5m cable	NIPPON ANTENNA CO., LTD.	MG-900A(SMA)	815 - 875MHz ≤ 0.6 dB 1926-2129MHz ≤ -0.6 dB	5 MG-900A(SMA)
318	$3\lambda/4$ with 5m cable	NIPPON ANTENNA CO., LTD.	HMG-900A(SMA)	815 - 875MHz ≤ 1.8 dB 1926-2129MHz ≤ -0.8 dB	6 HMG-900A(SMA)
319	$\lambda/4$ with 4m cable	NIPPON ANTENNA CO., LTD.	WH-900A(1/4)SMA-2	815 -925MHz ≤ 0.5 dB 1926-2129MHz ≤ -4 dB	7 WH-900A(14)SMA-2
320	$3\lambda/4$ with 4m cable	NIPPON ANTENNA CO., LTD.	WH-900A(3/4)SMA-2	815 -925MHz ≤ 2.5 dB 1926-2129MHz ≤ 2.1 dB	8 WH-900A(34)SMA-2
321	2MIMO $\lambda/2$ with 2.5m cable	NIPPON ANTENNA CO., LTD.	WH-800-MI2	815 -894MHz ≤ -3.1 dB	9 WH-800-MI2
322	2MIMO PCB with 2.5m cable	Hanwool Technology	FMSP800W-H2.5M-WPMIMO	815 -960MHz ≤ 2.92 dB 1447.9 -1510.9 ≤ -5.05 dB 1764.9-2170MHz ≤ 2.86 dB 2550 -2590 ≤ 0.84 dB	10 FMSP800W-H2.5M-WPMIMO
323	2MIMO PCB with 5.5m cable	Hanwool Technology	FMSP800W-H5.5M-BPMIMO	815 -960MHz ≤ 0.37 dB 1447.9 -1510.9 ≤ -7.68 dB 1764.9-2170MHz ≤ -0.23 dB 2550 -2590 ≤ -2.49 dB	11 FMSP800W-H5.5M-BPMIMO
324	2MIMO PCB with 5.5m cable	Hanwool Technology	FMSP800W-L5.5M-BPMIMO	815 -960MHz ≤ 0.92 dB 1447.9 -1510.9 ≤ -5.5 dB 1764.9-2170MHz ≤ 1.37 dB 2550 -2590 ≤ -2.49 dB	12 FMSP800W-L5.5M-BPMIMO
325	2MIMO PCB with 5m cable	Hanwool Technology	FMSP800W-H5M-WPMIMO	815 - 875MHz ≤ -3.9 dB 1926-2129MHz ≤ -7.9 dB	13 FMSP800W-H5M-WPMIMO
326	2MIMO with 2.5m cable	Hanwool Technology	小型防滴アンテナ	815 - 875MHz ≤ 1.04 dB 1926-2129MHz ≤ 0.41 dB	14 FOMA 小型防滴アンテナ
327	FPCB + Carrier Antenna	KDtech Wireless Innovation	MD-R74GH Main	815- 890MHz: ≤ 2.1 dB 1710 -2170MHz: ≤ 2.8 dB 2500 -2690MHz: ≤ 3.2 dB	15.MD-R74GH_MAIN
328	LTE Antenna	Shanghai Jesoncom Communication Engineering Co., Ltd	JSC-24Z001A	3	
329	LTE Antenna	Shanghai Jesoncom Communication Engineering Co., Ltd	AKY75E0AA000	3	
330	PIFA TYPE	HANWOOL TECHNOLOGY., LTD	HWI-LTJPM-ZDR058	1.59	APPROVAL SHEET_(EMTOMEGA)_HWI-LTJPM-ZDR058_200924
331	PIFA TYPE	HANWOOL TECHNOLOGY., LTD	HWI-LTJPD-ZDR058	2.67	APPROVAL SHEET_(EMTOMEGA)_HWI-LTJPD-ZDR058_200924
332	Dimensions of Antenna	Yi Chang Hsiang Industrial Co., Ltd.	GSM-004-DGG1G	FDD ≤ 3 dB TDD ≤ 4 dB	GSM-004-DGG1G20190815
333	Dimensions of Antenna	JIAXING GLEAD ELECTRONICS CO.,LTD.	LTE_PM900U1V5.0_J5M	≤ 3 dB	LTE_PM900U1V5.0_J5M
334	Single type 1/2 λ	NISSEI	FMM800W-4T-10M-BP	B1:-1.55dB, B3:-1.55dB, B8:0.83dB, B18:0.36dB, B19:0.83dB, B26:0.83dB, B41:-4.03dB	FMM800W-4T-10M-15M-BP V2.1

335	Single type 1/2λ	NISSEI	FMSP800W-H5.5M-BPM	B1:-0.75dBi,B3:-0.23dBi,B8:-1.84dBi, B18:0.18dBi,B19:-0.25dBi,B26:0.18dBi, B41:-0.73dBi	FMSP800W-H5.5M-BPMIMO V2.1
336	Single type 1/2λ	NISSEI	FMSP800W-H5.5M-BPS	B1:-1.38dBi,B3:-0.60dBi,B8:0.37dBi, B18:-2.36dBi,B19:-0.38dBi,B26:-0.38dBi, B41:-4.68dBi	FMSP800W-H5.5M-BPMIMO V2.1
337	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF Corporation	T18-051-1141	814~960[MHz]: ≦ 3dBi 1428~2170[MHz]: ≦ 3dBi	No.29_T18-051-1141_技適申請用資料(FPCダイポールAnt_U.FL).pdf
338	ダイポールアンテナ (λ/2~λ) Dipole antenna(λ/2~λ)	スタッフ株式会社 STAF Corporation	T20-030-1184	698~2690[MHz]: ≦ 3dBi	No.50_T20-030-1184 (1018-507A)_LTE_SMA-P_Antenna(MIO)_技適申請資料 English.pdf
339	MARS Dual Band OMNI antenna	MARS Antennas & RF Systems LTD	MA-HYT041	790-960MHz: ≦ 3dBi 2469-2690MHz: ≦ 4dBi	
340	LTE 4G Portable Swivel Antenna	Joymax Electronics Co., LTD.	YWXX-291XSAXX-244	698-960MHz: ≦ 2dBi 1710-2700MHz: ≦ 2dBi	
341	Omni-Directional with 2m Cable	Aristotle	RFA-LTE-JP122-41-2M	698-960MHz: ≦ 2dBi 1710-2700MHz: ≦ 1.0dBi	
342	LTE 4G Portable Small Antenna	Aristotle	RFA-LTE-C17M5-B	698-960MHz: ≦ 2.5dBi 1710-2700MHz: ≦ 1.0dBi	
343	LTE 4G Portable Small Antenna	Aristotle	RFA-LTE-T42-M70-C066	698-791MHz: ≦ 0.37dBi 824-960MHz: ≦ -0.76dBi 1710-2170MHz: ≦ 1.34dBi 2300-2700MHz: ≦ 2.34dBi	
344	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T18-029-1102	814~960[MHz]: ≦ 3dBi 1428~2170[MHz]: ≦ 3dBi	
345	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T18-029-1103	814~960[MHz]: ≦ 3dBi 1428~2170[MHz]: ≦ 3dBi	
346	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T18-051-1141	814~960[MHz]: ≦ 3dBi 1428~2170[MHz]: ≦ 3dBi	
347	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T18-051-1142	814~960[MHz]: ≦ 3dBi 1428~2170[MHz]: ≦ 3dBi	
348	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T18-051-1143	814~960[MHz]: ≦ 3dBi 1428~2170[MHz]: ≦ 3dBi	
349	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T20-001-1176	814~960[MHz]: ≦ 3dBi 1428~2690[MHz]: ≦ 3dBi	
350	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T20-001-1177	814~960[MHz]: ≦ 3dBi 1428~2690[MHz]: ≦ 3dBi	
351	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T20-003-1178	814~960[MHz]: ≦ 3dBi 1428~2690[MHz]: ≦ 3dBi	
352	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T20-003-1179	814~960[MHz]: ≦ 3dBi 1428~2690[MHz]: ≦ 3dBi	
353	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T19-060-1169	617~6000[MHz]: ≦ 3dBi	
354	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T19-060-1171	617~6000[MHz]: ≦ 3dBi	
355	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T16-072-1047	830~890[MHz]: ≦ 3dBi 1920~2170[MHz]: ≦ 3dBi	
356	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T16-072-1048	830~890[MHz]: ≦ 3dBi 1920~2170[MHz]: ≦ 3dBi	
357	ダイポールアンテナ (λ/2~λ) Dipole antenna(λ/2~λ)	スタッフ株式会社 STAF corporation	T20-030-1184	698~2690[MHz]: ≦ 3dBi	

358	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T19-060-1189	≦ 3dBi	
359	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T19-060-1190	≦ 3dBi	
360	ダイポールアンテナ (λ/2) Dipole antenna(λ/2)	スタッフ株式会社 STAF corporation	T18-013-1089	814~960[MHz]: ≦ 3dBi 1428~2690[MHz]: ≦ 3dBi	
361	Dipole	NIPPON ANTENNA CO.,LTD.	DP-BRO-AD-5M	900MHz Range ≦ -0.5dBi 2000MHz Range ≦ -0.15dBi 2500MHz Range ≦ -2.9dBi	
362	whip	SAGA DENSHI KOGYO CO., LTD.	MG827-3-SMAP	824MHz ≦ 2.09dBi 874.5MHz ≦ 1.4dBi 925MHz ≦ 1.12dBi 1757MHz ≦ -2.81dBi 1950MHz ≦ -1.56dBi	
363	whip	SAGA DENSHI KOGYO CO., LTD.	MG827-5-SMAP	2140MHz ≦ 0.79dBi 824MHz ≦ 0.79dBi 874.5MHz ≦ 0.12dBi 925MHz ≦ -0.23dBi 1757MHz ≦ -4.94dBi 1950MHz ≦ -3.69dBi	
364	whip	SAGA DENSHI KOGYO CO., LTD.	RTA827-3-SMAP	2140MHz ≦ -1.28dBi 824MHz ≦ 2.09dBi 874.5MHz ≦ 1.4dBi 925MHz ≦ 1.12dBi 1757MHz ≦ -2.81dBi 1950MHz ≦ -1.56dBi	
365	whip	SAGA DENSHI KOGYO CO., LTD.	RTA827-5-SMAP	2140MHz ≦ 0.79dBi 824MHz ≦ 0.79dBi 874.5MHz ≦ 0.12dBi 925MHz ≦ -0.23dBi 1757MHz ≦ -4.94dBi 1950MHz ≦ -3.69dBi	
366	whip	Jinchang Electron	JCG015 RightAngle 824-894/1710-2170	≦ 2 dBi	
367	whip	Jinchang Electron	JCG107 3m	≦ 2 dBi	
368	whip	Jinchang Electron	JCG107 5m	≦ 2 dBi	
369	Dipole	NISSEI Co.,LTD.	FMM800W-4T-5M-BP-LTE	800MHz Range ≦ 2.15dBi 2GHz Range ≦ 2.15dBi	
370	Dipole	NISSEI Co.,LTD.	FMM800W-4T-10M-BP-LTE	800MHz Range ≦ -1.05dBi 900MHz Range ≦ -0.08dBi 1.5GHz Range ≦ -0.96dBi 2GHz Range ≦ -1.12dBi 2.5GHz Range ≦ -1.50dBi	

371	Dipole	NISSEI Co.,LTD.	FMM800W-4T-15M-BP-LTE	800MHz Range ≤ -2.52 dBi 900MHz Range ≤ -1.42 dBi 1.5GHz Range ≤ -2.71 dBi 2GHz Range ≤ -3.20 dBi 2.5GHz Range ≤ -3.75 dBi	
372	Dipole	NISSEI Co.,LTD.	FMSP800W-D-2.5M-BPMIMO	800MHz Range ≤ -3.38 dBi 1.5GHz Range ≤ -1.93 dBi 2GHz Range ≤ 0.32 dBi	
373	Cable Antenna	WHA YU industrial Co.,LTD	C037-511126	814 ~ 960MHz: ≤ 2.06 dBi 1710 ~ 2170MHz: ≤ 2.49 dBi 2555 ~ 2655 MHz: ≤ -2.76 dBi	
374	/	Alpha Networks	8LTNE400M1A1G	FDD ≤ 3 ; TDD ≤ 4	
375	Omni-Directional	Quectel Wireless Solutions Co., Ltd.	YB0010AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YB0010AA_Datasheet_V1.2
376	Omni-Directional	Quectel Wireless Solutions Co., Ltd.	YB0016AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YB0016AA_Datasheet_V1.1
377	Chip	Quectel Wireless Solutions Co., Ltd.	YC0001AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YC0001AA_Datasheet_V2.3
378	Chip	Quectel Wireless Solutions Co., Ltd.	YC0002AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YC0002AA_Datasheet_V2.3
379	Omni-Directional	Quectel Wireless Solutions Co., Ltd.	YCN001AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YCN001AA_Datasheet_V1.0
380	Omni-Directional	Quectel Wireless Solutions Co., Ltd.	YDX001AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YDX001AA_Datasheet_V1.2
381	Dipole	Quectel Wireless Solutions Co., Ltd.	YE0006AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YE0006AA_Datasheet_V2.0
382	Omni-Directional	Quectel Wireless Solutions Co., Ltd.	YE0011AA	698 - 960MHz: ≤ 3 dBi 1710 - 2170MHz: ≤ 3dBi	Quectel_Antenna_YE0011AA_Datasheet_V1.2
383	Directional	Quectel Wireless Solutions Co., Ltd.	YE0013AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YE0013AA_Datasheet_V1.2
384	Dipole	Quectel Wireless Solutions Co., Ltd.	YE0029AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3 dBi	Quectel_Antenna_YE0029AA_Datasheet_V1.2
385	PCB	Quectel Wireless Solutions Co., Ltd.	YGL001AA	698 - 960MHz: ≤ 3 dBi 1710 - 2690MHz: ≤ 3dBi	Quectel_Antenna_YGL001AA_Datasheet_V2.0
386	FPCB Antenna	Intops..	SEA9-0622A(Main / GPS Antenna) SEA9-0623A (Diversity Antenna)	830 - 890MHz: ≤ 3 dBi 1710 - 1880MHz: ≤ 3dBi 1920 - 2170MHz: ≤ 3dBi	SEA9-0622A.PDF SEA9-0623A.PDF
387	Chip Antenna	antennova	SR4L049-L	791 - 960MHz: ≤ 1.9 dBi 1710 - 2170 MHz: ≤ 3.0 dBi (FDD) 2500 - 2690 MHz: ≤ 3.5 dBi (TDD)	Integra-SR4L049-PS-1.3.pdf H+V
388	LTE + 3G	ALINCO	FEA0297	800MHz ~ 900MHz 1.44dBi 1700MHz ~ 1850MHz 2.61dBi 1900MHz ~ 2150MHz 1.5dBi	EA0297_lte_antenna_Specs.pdf
389	LTE antenna	Zipline international	1451	≤ 3 dBi	01451.pdf

390	Phoenix 4G/3G/2G Ultra-wideband I-bar Antenna	TAOGLAS	GSA.8827R.A.101111	≦ 3dBi	GSA.8827R.A.101111.pdf
391	Dipole	TAOGLAS	FXUB63.07.0270C	703-748 MHz: ≦3dBi 815-830 MHz: ≦3dBi 830-845 MHz: ≦3dBi 880-915 MHz: ≦3dBi 1427-1448 MHz: ≦3dBi 1447-1463 MHz: ≦3dBi 1710-1785 MHz: ≦3dBi 1920-1980 MHz: ≦3dBi 2570-2620 MHz: ≦3dBi	FXUB63.07.0270C Wideband Cellular Flex Antenna 698-3000MHz (SPE-21-8-081-A)
392	LTE +3G	YAESU MUSEN CO., LTD.	SRA-28	815-2700 MHz: ≦2 dBi 1710 - 2690MHz: ≦3dBi	Antenna SRA-28 datasheet.pdf
393	2x LTE MIMO λ/2Dipole+GNSS with 3m cable	Shanghai Sainenna Electronic Technology Co. Ltd.	SAA31664A	698 - 960MHz: < 3dBi 1710 - 2170MHz: < 3dBi 2310 - 2700MHz: < 3dBi	GNSS+LTE Mimo Antenna SAA31664A-S3
394	2x LTE MIMO λ/2Dipole+GNSS with 3m cable	Shanghai Sainenna Electronic Technology Co. Ltd.	SAA31664B	698 - 960MHz: < 3dBi 1710 - 2170MHz: < 3dBi 2310 - 2700MHz: < 3dBi	GNSS+LTE Mimo Antenna SAA31664B-S3
395	2x LTE MIMO λ/2Dipole with 3m cable	Shanghai Sainenna Electronic Technology Co. Ltd.	SAA31631A	698 - 960MHz: < 3dBi 1710 - 2170MHz: < 3dBi 2310 - 2700MHz: < 3dBi	LTE MiMo Antenna SAA31631A-S3
396	2x LTE MIMO λ/2Dipole+GNSS with 3m cable	Taoglas Limited.	MA710.A.ABI.001	698 - 960MHz: < 3dBi 1710 - 2170MHz: < 3dBi 2600 - 3500MHz: < 3.2dBi	MA710.A.ABI.001
397	2x LTE MIMO λ/2Dipole+WALN+GNSS with 3m cable	Taoglas Limited.	MA760.A.ABIC.003	698 - 960MHz: < 3dBi 1710 - 2170MHz: < 3dBi 2300 - 3500MHz: < 3.2dBi	MA760.A.ABIC.003
398	2 MIMO λ/2Dipole with 2.5m cable	NIPPON ANTENNA CO., LTD.	MDP-INF-MI2	698 - 960MHz: < 3dBi 1710 - 2170MHz: < 3dBi 2300 - 2700MHz: < 3dBi	MDP-INF-MI2 Datasheet
399	2 MIMO λ/2Dipole with 2.5m cable	HANWOOL TECHNOLOGY CO.,LTD.	HW-MULTI-RSMA	806 - 960MHz: < 3dBi	HW-MULTI-RSMA-SPEC_121025
400	Dipole	NIPPON ANTENNA CO., LTD.	DP-BRO-RE-2M	700MHz帯: +1.6dBi 800MHz帯: +0.8dBi 900MHz帯: +0.8dBi 2GHz帯: +2.7dBi	DP-BRO-RE-2M.pdf
401	λ/4 monopole	Kyocera	ANT_CV1046	800MHz帯: -0.7dBi 900MHz帯: +0.1dBi 1.7GHz帯: -0.1dBi 2GHz帯: -1.2dBi	ANT_CV1046_内蔵アンテナ提出資料.pdf
402	λ/4 monopole	Kyocera	ANT_PC9147D	800MHz帯: +0.5dBi 900MHz帯: +0.5dBi 1.7GHz帯: +1.0dBi 2GHz帯: +1.0dBi	ANT_PC9147D_内蔵アンテナ提出資料.pdf

403	film antenna	NIPPON ANTENNA CO.,LTD.	GLTE-INF-150	① 699 MHz ~ 960 MHz ≤ 3dBi ② 1710 MHz ~ 2170 MHz ≤ 3dBi ③ 2300 MHz ~ 2690 MHz ≤ 3dBi	20211125_GLTE-INF-150 認證資料 .pdf
404	Omni-directional antenna	WHAYU INDUSTRIAL CO., LTD.	C210-690583-A	2.0 dBi@690~960MHz 2.2 dBi@1700~2700MHz	180-100-0891R_C210-690583-A(SZ1704-0063)-SPEC-HG
405	monopole	STAF	T17-055-1087	3	T17-055-1087(1018-441A) 技適申請資料_図面修正.pdf
406	monopole	STAF	T17-056-1088	3	T17-056-1088(1018-442A) 技適申請資料_図面修正.pdf
407	Chip Antenna	WALSIN	RFFPA401203IMTB301	820~960GHz @1.96 dBi 1710~2170GHz @2.98 dBi	ASC_RFFPA401203IMTB301_A (20220303)_Final_LTE_Antenna
408	λ/2 dipole antenna	STAF Co., Ltd.	T17-046-1207	814 - 894MHz ≤ 3dBi 1462.9-2170MHz ≤ 3dBi 2496-2690MHz ≤ 4dBi	T17-046-1207_LTE1.pdf
409	λ/2 dipole antenna	STAF Co., Ltd.	T17-046-1208	814 - 894MHz ≤ 3dBi 1462.9-2170MHz ≤ 3dBi 2496-2690MHz ≤ 4dBi	T17-046-1208_LTE2.pdf
410	λ/2 dipole antenna	STAF Co., Ltd.	T17-046-1209	814 - 894MHz ≤ 3dBi 1462.9-2170MHz ≤ 3dBi 2496-2690MHz ≤ 4dBi	T17-046-1209_LTE3.pdf
411	λ/2 dipole antenna	STAF Co., Ltd.	T17-046-1210	814 - 894MHz ≤ 3dBi 1462.9-2170MHz ≤ 3dBi 2496-2690MHz ≤ 4dBi	T17-046-1210_LTE4.pdf
412	PCB Antenna	Nippon Antenna (China) Co., Ltd	C15N16Z100IA	791-960MHz: ≦ 3dBi 1710-2690MHz: ≦ 3dBi	C15N16Z100IA.pdf
413	PCB Antenna	Amotech Co.,LTD.	AMMAP017	824-960MHz: -0.98 1710~2170MHz: 2.58	Approval sheet_AMMAP017_220512.pdf
414	PCB Antenna	Amotech Co.,LTD.	AMMAP017R	824-960MHz: 0.23 1710~2170MHz: 2.68	Approval sheet_AMMAP017R_220512.pdf
415	LTE + 3G	ALINCO INCORPORATED	EA0297	800MHz ~ 900MHz : -1.44dBi 880MHz ~ 960MHz : 0.92dBi 1700MHz ~ 1850MHz : 2.61 dBi 1900MHz ~ 2150MHz : 1.5dBi 2496MHz ~ 2690MHz : -0.17dBi	EA0297 lte_antenna_Specs_final.pdf
416	LTE embedded Antenna	Brito Technology	LTE0EM99-AP150L1	704-960/1710-2690 MHz ≦ 3dBi	AD-LTE-EM-1912-0075-A
417	DIP Antenna	Cortec Technology	DR0727-4201BSM	0.59dBi@700~960MHz 2.12dBi@1710~2700MHz 3.15dBi@2400~2500MHz	DR0727-4201BSM-Spec.F00190.pdf
418	Dipole	Quectel	YPA02A0AA	-0.21dBi@700~960MHz 2.57dBi@1710~2700MHz 0.78dBi@2400~2500MHz	Quectel_Antenna_YPA02A0AA_Datasheet_V1.0
419	LTE Antenna	MARS Antennas & RF Systems LTD.	MA-DBO2455-3	2dBi	MA-DBO2455-3.pdf(only for B41)
420	Dipole	Quectel	YZJ003AA	700~960/1710~2700 MHz ≦ 3dBi 2400~2500 MHz ≦ 4dBi	Quectel_Antenna_YZJ003AA_Datasheet_V2.0
421	Dipole	Quectel	YECT002AA	700~960/1710~2700 MHz ≦ 3dBi 2400~2500 MHz ≦ 4dBi	Quectel_Antenna_YECT002AA_Datasheet_V3.0
422	Dipole	Quectel	YPR00A0FA	700~960/1710~2700 MHz ≦ 3dBi 2400~2500 MHz ≦ 4dBi	Quectel_Antenna_YPR00A0FA_Datasheet_V2.0
423	Monopole	Quectel	YPCA004AA	700~960/1710~2700 MHz ≦ 3dBi 2400~2500 MHz ≦ 4dBi	Quectel_Antenna_YPCA004AA_Datasheet_V2.0

424	PIFA	Quectel	YKL02A1BA	700~960/1710~2700 MHz \leq 3dBi 2400~2500 MHz \leq 4dBi	Quectel_Antenna_YKL02A1BA_Datasheet_V2.3
425	Dipole	Quectel	YE0010AA	700~960/1710~2700 MHz \leq 3dBi 2400~2500 MHz \leq 4dBi	Quectel_Antenna_YE0010AA_Datasheet_V2.0
426	Dipole	Quectel	YE0013CA	700~960/1710~2700 MHz \leq 3dBi 2400~2500 MHz \leq 4dBi	Quectel_Antenna_YE0013CA_Datasheet_V1.0
427	Dipole	Quectel	YECT003AA	700~960/1710~2700 MHz \leq 3dBi 2400~2500 MHz \leq 4dBi	Quectel_Antenna_YECT003AA_Datasheet_V2.0
428	1/2 λ	Nissei	FMM800WA	2.86dBi	0204_FMM800WA_spec.pdf
429	PIFA	Shenzhen Yishengbang Technology Co., LTD	SLK-LK-6819-R-100I-B	0.81dBi@700~960MHz 1.24dBi@1710~2700MHz 1.2dBi@2400~2500MHz	Rev_No1_Yishengbang_Antenna_SLK-LK-6819-R-100I-B_Datasheet_V1.0
430	PIFA	Shenzhen Yishengbang Technology Co., LTD	SLK-LK-6819A-R-100I-B	2.72dBi@700~960MHz 2.99dBi@1710~2700MHz 2.82dBi@2400~2500MHz	Rev_No2_Yishengbang_Antenna_SLK-LK-6819A-R-100I-B_Datasheet_V1.0
431	PIFA	Shenzhen Yishengbang Technology Co., LTD	SLK-LK-3520-R-130I-B	1.55dBi@700~960MHz 1.79dBi@1710~2700MHz 1.79dBi@2400~2500MHz	Rev_No3_Yishengbang_Antenna_SLK-LK-3520-R-130I-B_Datasheet_V1.0
432	PIFA	Shenzhen Yishengbang Technology Co., LTD	SLK-LK-B4G-SMA	2.84dBi@700~960MHz 2.68dBi@1710~2700MHz 2.41dBi@2400~2500MHz	Rev_No4_Yishengbang_Antenna_SLK-LK-B4G-SMA_Datasheet_V1.0
433	monopole	Shenzhen Yunding Communication Electronics Co., Ltd	LK-SA-74	0.66dBi@700~960MHz 2.91dBi@1710~2700MHz 2.91dBi@2400~2500MHz	No5_Yunding_Antenna_LK-SA-74_Datasheet_V1.0
434	monopole	Shenzhen Yunding Communication Electronics Co., Ltd	LK-RRA-109	0.82dBi@700~960MHz 2.34dBi@1710~2700MHz 1.2dBi@2400~2500MHz	No6_Yunding_Antenna_LK-RRA-109_Datasheet_V1.0
435	monopole	Shenzhen Yunding Communication Electronics Co., Ltd	LK-DA-160	1.57dBi@700~960MHz 2.99dBi@1710~2700MHz 2.99dBi@2400~2500MHz	No7_Yunding_Antenna_LK-DA-160_Datasheet_V1.0 (20230322)
436	PIFA	CHANGSHU HONGBO TECHNOLOGY CO., LTD.	290-40686	814MHz ~ 915MHz @ 2.5dBi 1710MHz ~ 1980 MHz @ 1.57dBi	CDRB060_20230706_LTE Antenna Gain Report_ES2.0
437	$\lambda/2, \lambda$ Dipole	サン電子	ADN-0736T-25	B26/18/19:-1.5dbi B8:-3.6dbi B3:-0.2dbi B1:-0.6dbi B41:0.2dbi	
438	Omni-Directional	JOYMAX	YWX-6141SACX-697	B26/18/19:-0.83dbi B8:-1.32dbi B3:1.98dbi B1:2.21dbi B41:1.07dbi	
439	Omni-Directional	JOYMAX	YWX-6231SAEX-502	B26/18/19:2.75dbi B8:2.25dbi B3:2.71dbi B1:2.87dbi B41:0.77dbi	

440	単一型(V), $\lambda/2$	日精	FMM800W-4T-5M-BP	B26/18/19:-0.95dbi B8:-1.66dbi B3:-2.08dbi B1:-1.88dbi B41:0.13dbi	
441	単一型(V), $\lambda/2$	日精	FMSP800W-L2.5M-BPMIMO (Main) /FMSP800W-L2.5M- BPM	B26/18/19:1.51dbi B8:-5.58dbi B3:2.6dbi B1:-1.02dbi B41:0.84dbi	
442	単一型(V), $\lambda/2$	日精	FMSP800W-L2.5M- BPMIMO(Sub)/FMSP800W- L2.5M-BPS	B26/18/19:-1.32dbi B8:-1.69dbi B3:1.77dbi B1:-1.75dbi B41:0.46dbi	
443	単一型(V), $\lambda/2$	日精	FMSP800W-H1M- BPMIMO(Main)/FMSP800W- H1M-BPM	B26/18/19:2.61dbi B8:0.22dbi B3:-4.06dbi B1:-3.26dbi B41:-3.76dbi	
444	単一型(V), $\lambda/2$	日精	FMSP800W-H1M- BPMIMO(Sub)/FMSP800W- H1M-BPS	B26/18/19:0.39dbi B8:2.39dbi B3:-2.74dbi B1:-3.02dbi B41:-7.46dbi	
445	単一型(V), $\lambda/4$	サガ電子	MG827-3-SMAP	B26/18/19:1.9dbi B8:-2.54dbi B3:0.2dbi B1:-1dbi B41:1.9dbi	
446	単一型(V), $\lambda/4$	サガ電子	MG827-5-SMAP	B26/18/19:0.7dbi B8:-3.99dbi B3:-1.6dbi B1:-2.9dbi B41:-0.2dbi	
447	単一型(V), $\lambda/4$	サガ電子	MG827-10-SMAP	B26/18/19:-2.3dbi B8:-7.62dbi B3:-6.1dbi B1:-7.8dbi B41:-5.46dbi	
448	単一型(V), $\lambda/4$	サガ電子	RTA827-3-SMAP	B26/18/19:1.9dbi B8:-2.54dbi B3:0.2dbi B1:-1dbi B41:1.9dbi	

449	単一型(V),λ/4	サガ電子	RTA827-5-SMAP	B26/18/19:0.7dbi B8:-3.99dbi B3:-1.6dbi B1:-2.9dbi B41:-0.2dbi	
450	単一型(V),λ/4	サガ電子	RTA827-10-SMAP	B26/18/19:-2.3dbi B8:-7.62dbi B3:-6.1dbi B1:-7.8dbi B41:-5.46dbi	
451	単一型(V),λ/4	ヨコオ	YOZ-52544(Port1)	B26/18/19:0.29dbi B8:0.29dbi B3:1.99dbi B1:1.99dbi B41:0.46dbi	
452	単一型(V),λ/4	ヨコオ	YOZ-52544(Port2)	B26/18/19:0.32dbi B8:0.32dbi B3:1.87dbi B1:1.87dbi B41:0.27dbi	
453	Omni Antenna	Master Wave Technology Co,LTD.	GWAP-1	698-960MHz <= 2dBi 1710-2170MHz <= 3dBi 2300-2690MHz <= 3dBi	98110ZNF001(益網- GWAP-1) 承認書 - all_0615_2023
454	Omnidirectional	Shenzhen Zhengdaxinwei Communication Equipment Co.,Ltd	General, ZDXVZHS-GPS+4G+4G+WIFI,3M,SMA gold plated, round, Zhengda Xinwei	700- 960MHz: ≤3dBi 1710 - 2690MHz: ≤3dBi	英文 31160100074 四合一天线规格书-2023.11.14
455	monopole	Shenzhen Yunding Communication Electronics Co.,Ltd	LK-DA-93	1.0dBi@700~960MHz 3dBi@1710~2700MHz 3dBi@2400~2500MHz	Yunding_SMA-4G magnetic base antenna-174black-L3M_V1.0
456	PIFA type Antenna (Omni-Directional)	HANWOOL TECHNOLOGY CO.LTD	HWI-MULTIM-ITHACA	791- 2170MHz: < =2.5dBi	TG.22.0112 Penta-Band Dipole Antenna 150110
457	FPC Antenna	Grand-tek antenna solutions	103FG00000100	798 - 960MHz:< = 3dBi 1710 - 2690MHz:< = 3dBi	103FG00000100 Antenna,LTE+GPS,VC76C30
458	Dipole	Hascall-Denke Corporation	MPDP675X4	675MHz~2600MHz:< = 2dBi	675-2600MHZ-1Y38700-MPDP675X4-REV-A.PDF
459	Dipole	ARISTOTLE ENTERPRISES INC.	RFA-LTE-T281U-3M	698MHz~2700MHz:< = 1.83dBi	RFA-LTE-T281U-3M.pdf
460	Dipole	ARISTOTLE ENTERPRISES INC	RFA-S67-T281U-3M	617MHz~5925MHz:< = 2.64dBi	RFA-S67-T281U-3M.pdf
461	Dipole	Quectel Wireless Solutions Co., Ltd.	YE0021KA	700-960 MHz:< = 1.3dBi 1710-2170 MHz:< = 1.3dBi 2300-2700 MHz:< = 1.3dBi	Quectel_Antenna_YE0021KA_Datasheet_V2.1.pdf