

EC25-J, EC25-J MINIPCI Antenna List of TELECOM/JATE (018-190011)

| Antenna |              |                         |                                          | Gain Specification                                                                                                          |                      | File name of Specification                               |
|---------|--------------|-------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------|
| Index   | Type         | Manufactory             | Model Name                               | Max Gain (dBi)                                                                                                              | MAX. Gain Limit(dBi) |                                                          |
| 1       | PCB          | HCTm CO.,LTD            | NEW BRASSY                               | -5.66 for WCDMA B8, LTE B8<br>- 0.61 for WCDMA B1, LTE B1<br>- 4.60 LTE B41                                                 | 3                    | HCT_NEW BRASSY_MAIN ANTENNA_160107.pdf                   |
| 2       | PCB          | HCTm CO.,LTD            | NEW BRASSY                               | -1.82 for WCDMA B8, LTE B8<br>- 6.25 for WCDMA B1, LTE B1<br>-7.03 LTE B41                                                  | 3                    | HCT_NEW BRASSY_MIMO ANTENNA_160107.pdf                   |
| 3       | PCB          | IDY                     | AN0727-64DP5BSM-I /<br>AN0727-64DP5WSM-I | 0.5 ± 0.7dBi @ 700 ~ 960 MHz<br>2.0 ± 0.7dBi @ 1710 ~ 2700 MHz<br>4.5± 0.7dBi @ 1575.42 MHz                                 | 3                    | AN0727-64DP5xSM-I_SPEC_Rev2.0_20150801R0.pdf             |
| 4       | PCB          | IDY                     | AN0727-64SP6BSM-I /<br>AN0727-64SP6WSM-I | - 0.9 dBi @ 700 ~ 960 MHz<br>2.0 dBi @ 1710 ~ 2700 MHz<br>≦ 3.0 dBi @ 1430.4~1460.4MHz                                      | 3                    | AN0727-64SP6xSM-I_SPEC_Rev2.2_20150801R0.pdf             |
| 5       | Monopole     | IDY                     | AN0821-67A01WSM-I /<br>AN0821-67A01BSM-I | 0.5 ±1dBi @ 824~ 960 MHz<br>2.0 ±1 dBi @ 1710 ~ 1980 MHz<br>2.5 ±1 dBi @ 1980.1 ~ 2170 MHz<br>≦ 3.0 dBi @ 1430.4~ 1460.4MHz | 3                    | AN0821-67A01xSM-I_SPEC_Rev2.2_20150901R0.pdf             |
| 6       | Monopole     | IDY                     | C1467-510015-A-I                         | ≦ 3.0 dBi                                                                                                                   | 3                    | C1467-510015-A-I_SPEC_Rev2.2_20150901R0.pdf              |
| 7       | PCB          | IDY                     | DR0727-9001SM-I                          | 0.2 dBi @ 700 ~ 960 MHz<br>2.0 dBi @ 1710 ~ 2170 MHz<br>3.0 dBi @ 2300 ~ 2700 MHz                                           | 3                    | DR0727-9001SM-I_SPEC_Rev1R1_IDY.pdf                      |
| 8       | PCB          | IDY                     | SANT-800_2G_DA-I                         | 3.0 dBi @ low Band<br>3.0 dBi @ high Band                                                                                   | 3                    | SANT-800_2G_DA-I_SPEC_Rev2.0_20150801.pdf                |
| 9       | Monopole     | IDY                     | SW-42F-LTE-B5-I                          | 1dBi                                                                                                                        | 3                    | SW-42F-LTE-B5-I_SPEC_Rev1R0_IDY.pdf                      |
| 10      | Monopole     | IDY                     | SW-42F-LTE-B10-I                         | 1dBi                                                                                                                        | 3                    | SW-42F-LTE-B10-I_SPEC_Rev1R0_IDY.pdf                     |
| 11      | Monopole     | IDY                     | SW-42F-LTE-B15-I                         | 1dBi                                                                                                                        | 3                    | SW-42F-LTE-B15-I_SPEC_Rev1R0_IDY.pdf                     |
| 12      | Monopole     | IDY                     | SW-42F-LTE-B20-I                         | 1dBi                                                                                                                        | 3                    | SW-42F-LTE-B20-I_SPEC_Rev1R0_IDY.pdf                     |
| 13      | Monopole     | IDY                     | SW-42F-LTE-B-I                           | ≦ 3.0 dBi                                                                                                                   | 3                    | SW-42F-LTE-B-I_SPEC_Rev2R1_IDY.pdf                       |
| 14      | Monopole     | IDY                     | W50-S-V3-I                               | 1dBi@704-960<br>0-1dBi@1427.9-1510.9<br>2dBi@1710-2170<br>2dBi@2400-2690MHz                                                 | 3                    | W50-S-V3-I_SPEC_Rev2R1_IDY.pdf                           |
| 15      | Chip Antenna | INND-LINK               | CC35D8                                   | 3                                                                                                                           | 3                    | 35.0 x 5.0 x 4.0 (mm) LTE Full-Band Ceramic Chip Antenna |
| 16      | Ext Antenna  | INNO-LINK               | INNO-ELDSES-075                          | 3                                                                                                                           | 3                    | INNO-ELDSES-075_150128.pdf                               |
| 17      | PCB Antenna  | STAF                    | T16-062-1015                             | 3                                                                                                                           | 3                    | STAF_CORP_T16-062-1015_U.FL_(800M Low).pdf               |
| 18      | PCB Antenna  | STAF                    | 13-023                                   | 3                                                                                                                           | 3                    | STAF_CORP_13-023_U.FL_130mm.pdf                          |
| 19      | Dipole       | HANWOOL TECHNOLOGY      | HW-MULTI-GA-RSMA                         | 2.908                                                                                                                       | 3                    | JAPAN_HW-MULTI-GA-RSMA-SPEC_RV2                          |
| 20      | Dipole       | HANWOOL TECHNOLOGY CO., | HW-CMULTI-RSMA                           | 2.935                                                                                                                       | 3                    | HW-CMULTI-RSMA_150326                                    |
| 21      | Dipole       | HANWOOL TECHNOLOGY CO., | HW-2045DP-RSMA                           | 2.06                                                                                                                        | 3                    | wbk_HW-T2045DP-RSMA(uque)_100630                         |
| 22      | Dipole       | HANWOOL TECHNOLOGY CO., | HW-MULTI-M-SMA-2M                        | 2.962                                                                                                                       | 3                    | HW-MULTI-M-SMA-2M_SPEC_150617                            |
| 23      | Dipole       | HANWOOL TECHNOLOGY CO., | HW-MULTI-MD-SMA-L                        | 2.939                                                                                                                       | 3                    | HW-MULTI-MD-SMA-L_SPEC_En-140819                         |
| 24      | PCB          | Antenoca M2M            | SR4L002                                  | 0.5dBi@698 – 798 MHz<br>1dBi@824 – 960 MHz<br>2.5dBi@1710 - 2170 MHz<br>1.6dBi@2300 – 2400 MHz<br>2.5dBi@2500 – 2690 MHz    | 3                    | Lucida-LTE-SR4L002-PS-1.2.pdf                            |
| 25      | PCB          | Antenoca M2M            | SR4C005                                  | 0.9dBi@698 – 798 MHz<br>2.5dBi@824 – 960 MHz<br>2.5dBi@1710 - 2170 MHz<br>2.5dBi@2300 – 2400 MHz                            | 3                    | Similis-SR4C005-PS-1.1 (1).pdf                           |
| 26      | Monopole     | 2J-antennae             | 0758-0961 2J Antennae, 2J520             | 2.14 dBi                                                                                                                    | 3                    | 1. 2J520                                                 |

|      |                                                                                      |                           |                                                    |                                                                                                            |   |                                                  |
|------|--------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------|
| 27   | Monopole                                                                             | 2J-antennae               | 0758-0962 Taoglas, G21.B.301111<br>cable length 1m | 2.7 dBi                                                                                                    | 3 | 2. G21.B.301111                                  |
| 28   | Monopole                                                                             | 2J-antennae               | 0758-0963 Round Solutions, ANT-GXS606              | 2.14 dBi                                                                                                   | 3 | 3. ANT-GXS606                                    |
| 29   | Monopole                                                                             | 2J-antennae               | 0758-0965 Round Solutions, ANT-GXM602              | 2.14 dBi                                                                                                   | 3 | 4. ANT-GXM602                                    |
| 30   | Monopole                                                                             | Speed Technology          | MF28G                                              | <=3dBi                                                                                                     | 3 | MF28G.pfd                                        |
| 31   | Chip Antenna                                                                         | Unictron                  | CC40D9                                             | <=3dBi                                                                                                     | 3 | LTE Full-Band Chip Antenna(40D5060-CC40D9)_spec- |
| 32   | SMA PLUG                                                                             | PAC ELECTRONICS CO., LTD. | DR-RS18-12002                                      | <=3dBi                                                                                                     | 3 | DR-RS18-12002                                    |
| 33   | LTE+3G(56x36mm) Antenna                                                              | Hutec                     | HPLPB                                              | 824MHz ~ 960MHz : 1.7dBi<br>1850MHz ~ 2170MHz : 3.0dBi<br>2490MHz ~ 2690MHz : 2.5dBi                       | 3 | HPLPB Approval sheet_ecubelabs_ENG_REV_IR        |
| 34   | 3G-band Pattern Antenna                                                              | SATORI ELECTRIC CO., LTD. | D007-0027                                          | 830MHz ~ 890MHz : 0.66dBi<br>1920MHz ~ 2170MHz : 2.89dBi                                                   | 3 | 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<br>1427.9MHz~1510.9MHz: ≤3dBi<br>1710MHz~1977.5MHz: ≤3dBi<br>2400MHz~2690MHz: ≤3dBi | 3 | 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<br>1427.9MHz~1510.9MHz: ≤3dBi<br>1710MHz~1977.5MHz: ≤3dBi<br>2400MHz~2690MHz: ≤3dBi | 3 |                                                  |
| 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 | 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 |                                                  |
| 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 | 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 |                                                  |
| 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 | 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 |                                                  |
| 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<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 | 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: ≤3dBi<br>1710MHz~2170MHz : ≤3dBi<br>1427.9MHz~1510.9MHz : ≤3dBi<br>2400MHz~2700MHz: ≤3dBi | 3 | SW-42F-LTE-B20-I_Spec_Rev1R1.pdf                 |

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|------|-----------------------------------------------------------------------------------|-----------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------|
| 41   | 3in1 LTE MIMO + GNSS Antenna with 2m Cable and SMA male                           | IDY Corporation | iAN250-2M           | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi(*)<br>1920MHz~1980MHz : ≤3dBi(*)<br>2496MHz~2690MHz : ≤3dBi(*)<br>(*)Including 100mm cable adapter loss | 3 | <i>iAN250_Spec_Rev1R0.pdf</i><br>(*)SMASFN8-1100A-40X00I_Spec_Rev1R0.pdf<br>100mm cable adapter datasheet |
| 41-1 | 3in1 LTE MIMO + GNSS Antenna with 3m Cable and SMA male                           | IDY Corporation | iAN250-3M           | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi(*)<br>1920MHz~1980MHz : ≤3dBi<br>2496MHz~2690MHz : ≤3dBi<br>(*)Including 100mm cable adapter loss       | 3 |                                                                                                           |
| 41-2 | 3in1 LTE MIMO + GNSS Antenna with 2m Cable and SMA male + 12m Extension Cable     | IDY Corporation | iAN250-14M          | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi<br>1920MHz~1980MHz : ≤3dBi<br>2496MHz~2690MHz : ≤3dBi                                                   | 3 |                                                                                                           |
| 41-3 | 3in1 LTE MIMO + GNSS Antenna with 3m Cable and SMA male + 12m Extension Cable     | IDY Corporation | iAN250-15M          | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi<br>1920MHz~1980MHz : ≤3dBi<br>2496MHz~2690MHz : ≤3dBi                                                   | 3 |                                                                                                           |
| 42   | 2x LTE MIMO Antenna with 2m Cable and SMA male                                    | IDY Corporation | iAN251-2M           | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi(*)<br>1920MHz~1980MHz : ≤3dBi(*)<br>2496MHz~2690MHz : ≤3dBi(*)<br>(*)Including 100mm cable adapter loss | 3 | <i>iAN251_Spec_Rev1R0.pdf</i><br>(*)SMASFN8-1100A-40X00I_Spec_Rev1R0.pdf<br>100mm cable adapter datasheet |
| 42-1 | 2x LTE MIMO Antenna with 3m Cable and SMA male                                    | IDY Corporation | iAN251-3M           | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi(*)<br>1920MHz~1980MHz : ≤3dBi<br>2496MHz~2690MHz : ≤3dBi<br>(*)Including 100mm cable adapter loss       | 3 |                                                                                                           |
| 42-2 | 2x LTE MIMO Antenna with 2m Cable and SMA male + 12m Extension Cable              | IDY Corporation | iAN251-14M          | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi<br>1920MHz~1980MHz : ≤3dBi<br>2496MHz~2690MHz : ≤3dBi                                                   | 3 |                                                                                                           |
| 42-3 | 2x LTE MIMO Antenna with 3m Cable and SMA male + 12m Extension Cable              | IDY Corporation | iAN251-15M          | 698MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~1784.9MHz : ≤3dBi<br>1920MHz~1980MHz : ≤3dBi<br>2496MHz~2690MHz : ≤3dBi                                                   | 3 |                                                                                                           |
| 43   | 3G/4G LTE GSM Multi Band Antenna with 3m Cable and SMA male                       | IDY Corporation | DR0727-9001SM-I     | 810MHz~960MHz : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~2700MHz : ≤3dBi                                                                                                           | 3 | <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 : ≤3dBi<br>1427.9MHz~1462.9MHz : ≤3dBi<br>1710MHz~2700MHz : ≤3dBi                                                                                                           | 3 |                                                                                                           |
| 44   | 3G/4G LTE GSM Multi Band Antenna with 2.5m Cable and SMA male                     | IDY Corporation | iAN078-2.5M         | 704MHz~960MHz : ≤3dBi<br>1427MHz~1511MHz : ≤3dBi<br>1710MHz~2700MHz : ≤3dBi                                                                                                               | 3 | <i>iAN078-2.5M_Spec_Rev1R0.pdf</i>                                                                        |

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| 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 : $\leq 3\text{dBi}$<br>1427MHz~1511MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz : $\leq 3\text{dBi}$                                               | 3 |                                                                                                                                                                                                                |
| 45   | 3G/4G LTE GSM Multi Band Antenna with 3.5m Cable and SMA male                                         | IDY Corporation | iAN078-3.5M           | 704MHz~960MHz : $\leq 3\text{dBi}$<br>1427MHz~1511MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz : $\leq 3\text{dBi}$                                               | 3 | <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 : $\leq 3\text{dBi}$<br>1427MHz~1511MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz : $\leq 3\text{dBi}$                                               | 3 |                                                                                                                                                                                                                |
| 46   | 3G/4G LTE Multi Band PCB Antenna with 200mm Cable                                                     | IDY Corporation | iAN1398-200           | 815MHz~960MHz : $\leq 3\text{dBi}$<br>1920MHz~2170MHz : $\leq 3\text{dBi}$<br>1427.9MHz~1510.9MHz : $\leq 3\text{dBi}$<br>1710MHz~1784.9MHz : $\leq 3\text{dBi}$ | 3 | <i>iAN1398-200_Spec_Rev1R1.pdf</i><br>Rev1R1:<br>1) Add band 11. (1427.9MHz ~ 1447.9MHz)<br>2) Add band 3 and band 9. (1710MHz ~ 1784.9MHz)<br>3) Add maximum Peak Gain specification. ( $\leq +3\text{dBi}$ ) |
| 47   | 3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel), Color : Black                                | IDY Corporation | AN0727-64DP5BSM-I     | 700MHz~960MHz: $\leq 3\text{dBi}$<br>1427.9MHz~1462.9MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz: $\leq 3\text{dBi}$                                             | 3 | <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: $\leq 3\text{dBi}$<br>1427.9MHz~1462.9MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz: $\leq 3\text{dBi}$                                             | 3 |                                                                                                                                                                                                                |
| 47-2 | 3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color : Black | IDY Corporation | AN0727-64DP5BSM-I-MB5 | 700MHz~960MHz: $\leq 3\text{dBi}$<br>1427.9MHz~1462.9MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz: $\leq 3\text{dBi}$                                             | 3 |                                                                                                                                                                                                                |
| 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: $\leq 3\text{dBi}$<br>1427.9MHz~1462.9MHz : $\leq 3\text{dBi}$<br>1710MHz~2700MHz: $\leq 3\text{dBi}$                                             | 3 |                                                                                                                                                                                                                |
| 48   | 3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel), Color : Black                                | IDY Corporation | AN0727-64SP6BSM-I     | 700MHz~960MHz: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$<br>2400MHz~2700MHz : $\leq 3\text{dBi}$     | 3 | <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: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$<br>2400MHz~2700MHz : $\leq 3\text{dBi}$     | 3 |                                                                                                                                                                                                                |
| 48-2 | 3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) with Magnet Base and 5m Cable , Color : Black | IDY Corporation | AN0727-64SP6BSM-I-MB5 | 700MHz~960MHz: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$<br>2400MHz~2700MHz : $\leq 3\text{dBi}$     | 3 |                                                                                                                                                                                                                |
| 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: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$<br>2400MHz~2700MHz : $\leq 3\text{dBi}$     | 3 |                                                                                                                                                                                                                |
| 49   | 3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel), Color : Black                                | IDY Corporation | AN0821-67A01BSM-I     | 824MHz~960MHz: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$                                             | 3 | <i>AN0821-67A01xSM-I_SPEC_Rev2R3.pdf</i>                                                                                                                                                                       |
| 49-1 | 3G/4G LTE GSM Multi Band Antenna with SMA male (Swivel) ,Color : White                                | IDY Corporation | AN0821-67A01WSM-I     | 824MHz~960MHz: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$                                             | 3 |                                                                                                                                                                                                                |
| 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: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$                                             | 3 |                                                                                                                                                                                                                |
| 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: $\leq 3\text{dBi}$<br>1430.4MHz~1460.4MHz : $\leq 3\text{dBi}$<br>1710MHz~1980MHz: $\leq 3\text{dBi}$                                             | 3 |                                                                                                                                                                                                                |

|      |                                                                                               |                            |                           |                                                                                                                                                                                                                                                      |     |                                         |
|------|-----------------------------------------------------------------------------------------------|----------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------|
| 50   | 3G/4G LTE GSM Multi Band Antenna with 2.5m Cable and SMA male                                 | IDY Corporation            | SANT-800_2G_DA-I          | 824MHz~885MHz: $\leq 3\text{dBi}$<br>1427.9MHz~1462.9MHz : $\leq 3\text{dBi}$<br>1920MHz~2170MHz: $\leq 3\text{dBi}$                                                                                                                                 | 3   | 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: $\leq 3\text{dBi}$                                                                                                                                                                                                                   | 3   | 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: $\leq 3\text{dBi}$                                                                                                                                                                                                                   | 3   |                                         |
| 52   | 単一型(V), $\lambda / 2$                                                                         | Nissei electric co.,LTD    | FMM800W-SMAP-L            | BAND 1 ant. Gain 2.88<br>BAND 1 attenuation 0<br>BAND 1 Net gain 2.88<br>BAND 1 Polarization V<br>BAND 18/19 ant. Gain 1.9<br>BAND 18/19 attenuation 0<br>BAND 18/19 Net gain 1.9<br>BAND 18/19 Polarization V                                       | 3   | FMM800W-SMAP-L 機器仕様書 V2.3.pdf           |
| 53   | Omni-Directional                                                                              | pulse                      | W1910                     | BAND 1 ant. Gain 2.5<br>BAND 1 attenuation 0<br>BAND 1 Net gain 2.5<br>BAND 1 Polarization V<br>BAND 18/19 ant. Gain 1<br>BAND 18/19 attenuation 0<br>BAND 18/19 Net gain 1<br>BAND 18/19 Polarization V                                             | 2.5 | W1910_W1911.pdf                         |
| 54   | PCB                                                                                           | WHAYU                      | C1597-510280-A            | 824 – 960MHz, 1710 – 2170MHz $\leq 3\text{dBi}$                                                                                                                                                                                                      | 3   | C1597-510280-A ANT1 LTE _SRF2018254.pdf |
| 55   | Metal Antenna                                                                                 | MITSUMI ELECTRIC CO.,LTD   | R16-A203                  | 698-960MHz $\leq 3\text{dBi}$<br>1447.9-1510.9MHz $\leq 3\text{dBi}$<br>1710-2170MHz $\leq 3\text{dBi}$<br>2300-2400MHz $\leq 3\text{dBi}$<br>2496-2690MHz $\leq 3\text{dBi}$                                                                        | 3   | 0424_R16-A203.pdf                       |
| 56   | Dipole                                                                                        | MITSUMI ELECTRIC CO., LTD. | Apex Black Straight TG.30 | 700-800MHz $\leq 3\text{dBi}$<br>824-960MHz $\leq 1.5\text{dBi}$<br>1710-1880MHz $\leq 2.7\text{dBi}$<br>1850-1990MHz $\leq 2.8\text{dBi}$<br>1710-2170MHz $\leq 3\text{dBi}$<br>2400-2700MHz $\leq 3\text{dBi}$<br>1575.42 MHz $\leq 2.6\text{dBi}$ | 3   | TG.30.8111.pdf                          |
| 57   | Metal Antenna                                                                                 | MITSUMI ELECTRIC CO., LTD. | R16-A500                  | 699-960MHz $\leq 3\text{dBi}$<br>1447.9-1510.9MHz $\leq 3\text{dBi}$<br>1710-2170MHz $\leq 3\text{dBi}$<br>2300-2400MHz $\leq 3\text{dBi}$<br>2496-2690MHz $\leq 3\text{dBi}$                                                                        | 3   | R16-A500.pdf                            |
| 58   | Metal Antenna                                                                                 | MITSUMI ELECTRIC CO., LTD. | DCA-CA7                   | 729-960MHz $\leq 3\text{dBi}$<br>1710-2170MHz $\leq 3\text{dBi}$<br>2300-2690MHz $\leq 3\text{dBi}$                                                                                                                                                  | 3   | DCA-CA7.pdf                             |
| 59   | Metal Antenna                                                                                 | MITSUMI ELECTRIC CO., LTD. | DA15-D132                 | 700-1000MHz $\leq 3\text{dBi}$<br>1700-2700MHz $\leq 3\text{dBi}$                                                                                                                                                                                    | 3   | DA15-D132.pdf                           |
| 60   | Magnetic Antenna                                                                              | PAC Electronics Co., Ltd.  | DR-MA18-02001             | 699 - 960MHz: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$                                                         | 3   | DR-MA18-02001                           |

|    |                                              |                                        |                          |                                                                                                                                                                                                          |      |                                                  |
|----|----------------------------------------------|----------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------|
| 61 | Omni                                         | WIESON TECHNOLOGIES CO., LTD.          | GY115HT467-037           | 699 - 960MHz: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$             | 3    | GY115HT467-037                                   |
| 62 | $\lambda/2$ 短縮型ダイポールアンテナ                     | NIPPON ANTENNA CO., LTD.               | DP-BRO-MI2               | 800MHz: $< -1.0\text{dBi}$<br>1500MHz: $< -1.0\text{dBi}$<br>1700MHz: $< 0\text{dBi}$<br>200MHz: $< -1.0\text{dBi}$<br>2500MHz: $< -1.0\text{dBi}$                                                       | 0    | 【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: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$             | 3    | SEA9-0185A.pdf                                   |
| 64 | FPCB Antenna                                 | INTOPS CO., LTD.                       | SEA9-0184A               | 699 - 960MHz: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$             | 3    | SEA9-0184A.pdf                                   |
| 65 | Magnetic antenna                             | Shenzhen AFC Antenna Adapter Co., Ltd. | YG-4G-RG174-700-SMAJ-104 | 699 - 960MHz: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$             | 3    | YG-4G-RG174-700-SMAJ-104.pdf                     |
| 66 | Single type 1/4 $\lambda$                    | SE TECH                                | ANT-SE01-DA              | 699 - 960MHz: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$             | 3    | ANT-SE01-DA.PDF                                  |
| 67 | Single type 1/4 $\lambda$                    | SE TECH                                | ANT-SE11-MA              | 699 - 960MHz: $\leq 3\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3\text{dBi}$             | 3    | ANT-SE11-MA.PDF                                  |
| 68 | Quad-Band PCB antenna                        | Taoglas                                | FXP40.07.0085A           | 824-896 MHz $\leq -3.83\text{dBi}$<br>880 - 960 MHz $\leq -3.25\text{dBi}$<br>1710-1880MHz $\leq 1.37\text{dBi}$<br>1850-1990 MHz $\leq 1.03\text{dBi}$                                                  | 3    | FXP40.07.0085A.PDF                               |
| 69 | penta band Cellular Higned SMA male Monopole | Taoglas                                | TG.09.0113               | 824-896 MHz $\leq 2.0\text{dBi}$<br>880 - 960 MHz $\leq 2.0\text{dBi}$<br>1710-1880MHz $\leq 2.8\text{dBi}$<br>1850-1990 MHz $\leq 2.8\text{dBi}$<br>1710-2170 MHz $\leq 2.0\text{dBi}$                  | 3    | TG_09_0113_1.pdf                                 |
| 70 | Single type 1/4 $\lambda$                    | NISSEI ELECTRIC CO., LTD.              | ANTP0450-C0534-STD       | 699 - 960MHz: $\leq -0.02\text{dBi}$<br>1425 - 1660MHz: $\leq 2.85\text{dBi}$<br>1700 - 2170MHz: $\leq 2.46\text{dBi}$<br>2300 - 2400MHz: $\leq 2.23\text{dBi}$<br>2496 - 2690MHz: $\leq 2.23\text{dBi}$ | 2.85 | ANTP0450                                         |
| 71 | Single type 1/4 $\lambda$                    | NISSEI ELECTRIC CO., LTD.              | ANTP0440-C0531-STD       | 815 - 960MHz: $\leq 1.68\text{dBi}$<br>1425 - 1510MHz: $\leq 1.48\text{dBi}$<br>1710 - 2170MHz: $\leq 2.34\text{dBi}$                                                                                    | 2.34 | ANTP0440                                         |
| 72 | Dipole Antenna                               | NIPPON ANTENNA CO., LTD.               | DP-BRO                   | 815 - 960MHz: $\leq -0.6\text{dBi}$<br>1700 - 2170MHz: $\leq 0.9\text{dBi}$                                                                                                                              | 0.9  | DP-BRO                                           |

|               |                                   |                                 |                                                                   |                                                                                                                                                                                                              |      |                                                                                                                                                                                               |
|---------------|-----------------------------------|---------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 73            | Dipole Antenna                    | NIPPON ANTENNA CO., LTD.        | DP-BRO-AD                                                         | 815- 960MHz: $\leq -0.6\text{dBi}$<br>1710 - 2170MHz: $\leq -0.6\text{dBi}$                                                                                                                                  | -0.6 | DP-BRO-AD                                                                                                                                                                                     |
| 74            | Dipole Antenna                    | NIPPON ANTENNA CO., LTD.        | DP-BRO-RE                                                         | 815 - 960MHz: $\leq -1.7\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq -0.9\text{dBi}$<br>1745 - 1785MHz: $\leq -0.6\text{dBi}$<br>1920 - 2170 MHz: $\leq -1.0\text{dBi}$<br>2496 - 2690MHz: $\leq -3.1\text{dBi}$ | -0.6 | DP-BRO-RE                                                                                                                                                                                     |
| 75            | FPCB Antenna                      | BLUEBIRD                        | RT101-MAIN                                                        | 699 - 960MHz: $\leq 1\text{dBi}$<br>1710 - 2170MHz: $\leq 2\text{dBi}$<br>2300 - 2400MHz: $\leq 2\text{dBi}$<br>2496 - 2690MHz: $\leq 2\text{dBi}$                                                           | 2    | RT101-MAIN.XLS                                                                                                                                                                                |
| 76            | LTE Antenna                       | WIESON TECHNOLOGIES CO., LTD.   | GY115HT467-017                                                    | 698 - 960MHz: $\leq 1.66\text{dBi}$<br>1771- 2170 MHz: $\leq 1.8\text{dBi}$<br>2305- 2690MHz: $\leq 2.97\text{dBi}$                                                                                          | 2.97 | GY115HT467-017                                                                                                                                                                                |
| 77            | PIFA                              | Braveridge Co.,Ltd              | BLTBRJT01ZA                                                       | 0dBi                                                                                                                                                                                                         | 0dBi | BLTBRJT01ZA                                                                                                                                                                                   |
| 78            | dipole                            | NISSEI ELECTRIC CO., LTD.       | ANTP0417-P1035-PCB                                                | 3dBi                                                                                                                                                                                                         | 3dBi | ANTP0417-P1035-PCB                                                                                                                                                                            |
| 79            | dipole                            | NISSEI ELECTRIC CO., LTD.       | ANT2013-161B/U-W                                                  | 3dBi                                                                                                                                                                                                         | 3dBi | ANT2013                                                                                                                                                                                       |
| 80            | LTE Antenna                       | HANWOOL TECHNOLOGY CO., LTD     | HWI-LTEJP-100GDS                                                  | 1920MHz ~ 2170MHz : 1.7 dBi<br>1710MHz ~ 1880MHz : 2.6. dBi<br>880MHz ~ 960MHz : 1.0 dBi<br>830MHz ~ 890MHz : 1.9 dBi                                                                                        | 3dBi | APPROVAL SHEET_(SCSPRO)_HWI-LTEJP-100GDS_181212                                                                                                                                               |
| 81            | Omni Antenna                      | MasterWave Technology Co., Ltd. | M7203V-B                                                          | 698- 960MHz: $\leq 1.9\text{dBi}$<br>1710 - 2170MHz: $\leq 2.5\text{dBi}$<br>2300 - 2690MHz: $\leq 2.7\text{dBi}$                                                                                            | 2.7  | M7203V-B (98110ZNF000) LTE Omni-Test Report_v1_20181116                                                                                                                                       |
| 82            | Omni Antenna                      | MasterWave Technology Co., Ltd. | 98110ZNF000                                                       | 698- 960MHz: $\leq 1.9\text{dBi}$<br>1710 - 2170MHz: $\leq 2.5\text{dBi}$<br>2300 - 2690MHz: $\leq 2.7\text{dBi}$                                                                                            | 2.7  | 98110ZNF000 承認書 - all (1)                                                                                                                                                                     |
| 83            | Dipole Antenna                    | Aristotle Enterprises INC.      | RFA-LTE-T42-U-M70-1                                               | 699 - 960MHz: $\leq 0.9\text{dBi}$<br>1710 - 2170MHz: $\leq 2.5\text{dBi}$<br>2300 - 2700MHz: $\leq 3\text{dBi}$                                                                                             | 3    | RFA-LTE-T42-U-M70-1[1]                                                                                                                                                                        |
| 84            | PCB Antenna                       | Cortec technology inc           | NB1445-A100BX                                                     | 698- 960MHz: $\leq -0.09\text{dBi}$<br>1710- 2700MHz: $\leq 2.68\text{dBi}$                                                                                                                                  | 2.68 | NB1445-A100BX-Spec-2018.08.07.奇邑                                                                                                                                                              |
| 85            | SMD Antenna                       | Antenova Ltd.,                  | Lucida                                                            | 698 – 798 MHz $\cong 0.5\text{dBi}$<br>824 – 960 MHz $\cong 1.0\text{dBi}$<br>1710 - 2170 MHz $\cong 2.5\text{dBi}$<br>2300 – 2400 MHz $\cong 1.6\text{dBi}$<br>2500 – 2690 MHz $\cong 2.5\text{dBi}$        | 2.5  | Lucida LTE-SR4L002-PS-1.2                                                                                                                                                                     |
| 86            | Chip Antenna                      | Unictron                        | CC26DH                                                            | 824 - 960MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$                                                                                                                                       | 3    | CC26DH_unictron.pdf                                                                                                                                                                           |
| 87            | Ultra-wideband I-bar Antenna      | Taoglas                         | W93L-0001-0028                                                    | 698 - 960MHz: $\leq 3\text{dBi}$<br>1575.42MHz: $\leq 3\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                                                                                     | 3    | V8_External_LTE_Antenna_Spec.pdf                                                                                                                                                              |
| 88            | Chip Antenna                      | MITSUBISHI MATERIAL             | AM11DP-ST01T                                                      | 815 - 960MHz: $\leq 3\text{dBi}$<br>1427.9 - 1495.9MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$                                                                                             | 3    | 技RJC-19B05.pdf<br>SPQ-18J51(AM11DP-ST01T).pdf                                                                                                                                                 |
| 89            | FPCB Antenna                      | Intops..                        | SEA9-0212A (Main / GPS Antenna)<br>SEA9-0213A (Diversity Antenna) | 822 - 876MHz: $\cong 3\text{dBi}$<br>1950 - 2140MHz: $\cong 3\text{dBi}$<br>1575.42MHz: $\cong 3\text{dBi}$                                                                                                  | 3    | SEA9-0212A.PDF<br>SEA9-0213A.PDF                                                                                                                                                              |
| 90            | Metal Antenna                     | FORTE.INC                       | 70097A-36                                                         | 790MHz ~ 2170MHz: $\leq 3\text{dBi}$                                                                                                                                                                         | 3    | ES820-J LTE Antenna 70097A Specification 19.3.26.pdf                                                                                                                                          |
| 91<br>(MIMO1) | PIFA<br>(with 3m cable +1m cable) | IDY                             | iAN250-4M                                                         | Refer specification                                                                                                                                                                                          | 3    | iAN250_Spec_Rev2R0.pdf<br>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<br>(with 3m cable +1m cable)      | IDY                | iAN250-4M          | Refer specification                                      | 3 | iAN250_Spec_Rev2R0.pdf<br>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<br>(MIMO1) | PIFA<br>(with 3m cable +1m cable)      | IDY                | iAN251-4M          | Refer specification                                      | 3 | iAN251_Spec_Rev2R0.pdf<br>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<br>(with 3m cable +1m cable)      | IDY                | iAN251-4M          | Refer specification                                      | 3 | iAN251_Spec_Rev2R0.pdf<br>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<br>(with 3m cable +1m cable)    | IDY                | DR0727-9001SM-I-4M | Refer specification                                      | 3 | DR0727-9001SM-I_Spec_RevN4R0.pdf                                                                                                                                                              |
| 94            | Dipole<br>(with 2.5m+1m cable)         | IDY                | iAN078-3.5ME       | Refer specification                                      | 3 | iAN078-2.5M-3.5ME-14.5M_Spec_RevN2R0.pdf                                                                                                                                                      |
| 95            | Dipole<br>(with 3.5m+1m cable)         | IDY                | iAN078-4.5M        | Refer specification                                      | 3 | iAN078-3.5M-4.5M-15.5M_Spec_RevN2R1.pdf                                                                                                                                                       |
| 96            | Dipole                                 | IDY                | iAN067             | Refer specification                                      | 3 | iAN067_Spec_Rev1R2.pdf                                                                                                                                                                        |
| 97            | Dipole                                 | IDY                | iAN067Z            | Refer specification                                      | 3 | iAN067_Spec_Rev1R2.pdf<br>(iAN067 without "IDY" logo.)                                                                                                                                        |
| 98            | Dipole<br>(with 5m cable)              | IDY                | iAN067-MB5         | Refer specification                                      | 3 | iAN067_Spec_Rev1R2.pdf                                                                                                                                                                        |
| 99            | Dipole<br>(with 5m cable)              | IDY                | iAN067Z-MB5        | Refer specification                                      | 3 | iAN067_Spec_Rev1R2.pdf<br>(iAN067-MB5 without "IDY" logo.)                                                                                                                                    |
| 100<br>(LTE1) | Dipole<br>(with 2.5m cable)            | IDY                | iAN261-L2GW        | Refer specification                                      | 3 | iAN261-L2GW_Spec-RevN1R2.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 2.5m cable)            | IDY                | iAN261-L2GW        | Refer specification                                      | 3 | iAN261-L2GW_Spec-RevN1R2.pdf                                                                                                                                                                  |
| 101<br>(LTE1) | Dipole<br>(with 2.5m cable +1m cable)  | IDY                | iAN261-L2GW-3.5M   | Refer specification                                      | 3 | iAN261-L2GW_Spec-RevN1R2.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 2.5m cable +1m cable)  | IDY                | iAN261-L2GW-3.5M   | Refer specification                                      | 3 | iAN261-L2GW_Spec-RevN1R2.pdf                                                                                                                                                                  |
| 102<br>(LTE1) | Dipole<br>(with 2.5m cable +12m cable) | IDY                | iAN261-L2GW-14.5M  | Refer specification                                      | 3 | iAN261-L2GW_Spec-RevN1R2.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 2.5m cable +12m cable) | IDY                | iAN261-L2GW-14.5M  | Refer specification                                      | 3 | iAN261-L2GW_Spec-RevN1R2.pdf                                                                                                                                                                  |
| 103<br>(LTE1) | Dipole<br>(with 2.5m cable)            | IDY                | iAN261-L2ZZ        | Refer specification                                      | 3 | iAN261-L2ZZ_Spec-RevN1R2.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 2.5m cable)            | IDY                | iAN261-L2ZZ        | Refer specification                                      | 3 | iAN261-L2ZZ_Spec-RevN1R2.pdf                                                                                                                                                                  |
| 104<br>(LTE1) | Dipole<br>(with 2.5m cable +1m cable)  | IDY                | iAN261-L2ZZ-3.5M   | Refer specification                                      | 3 | iAN261-L2ZZ_Spec-RevN1R2.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 2.5m cable +1m cable)  | IDY                | iAN261-L2ZZ-3.5M   | Refer specification                                      | 3 | iAN261-L2ZZ_Spec-RevN1R2.pdf                                                                                                                                                                  |
| 105<br>(LTE1) | Dipole<br>(with 2.5m cable +12m cable) | IDY                | iAN261-L2ZZ-14.5M  | Refer specification                                      | 3 | iAN261-L2ZZ_Spec-RevN1R2.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 2.5m cable +12m cable) | IDY                | iAN261-L2ZZ-14.5M  | Refer specification                                      | 3 | iAN261-L2ZZ_Spec-RevN1R2.pdf                                                                                                                                                                  |
| 106<br>(LTE1) | Dipole<br>(with 1.5m cable)            | IDY                | iAN260-L2GW        | Refer specification                                      | 3 | iAN260-L2GW_Spec_Rev1R0a.pdf                                                                                                                                                                  |
| (LTE2)        | Dipole<br>(with 1.5m cable)            | IDY                | iAN260-L2GW        | Refer specification                                      | 3 | iAN260-L2GW_Spec_Rev1R0a.pdf                                                                                                                                                                  |
| 107           | Carrier type Antenna                   | Hanwool Technology | HWI-LTJP-MFHC100   | 841 - 894MHz: $\leq 1dBi$<br>1920 - 2170MHz: $\leq 3dBi$ | 3 | LTE_main.pdf                                                                                                                                                                                  |



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|-----|----------------------------------------|--------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------|------|
| 108 | Carrier type Antenna                   | Hanwool Technology                               | HWI-LTJP-DFHC100 | 841 - 894MHz: $\leq 0\text{dBi}$<br>1920 - 2170MHz: $\leq 1\text{dBi}$                                                                                                                       | 3 | LTE_Diversity.pdf                                                        | 5/27 |
| 109 | External Antenna                       | Shanghai Saintenna Wireless Technology Co., Ltd. | SAA31338A        | <3dBi                                                                                                                                                                                        | 3 | SAA31338A 全频段吸盘胶棒天线规格书.pdf                                               | 5/27 |
| 110 | Flexible Printed Circuit Board Antenna | ShenZhen Powerful Technology Co.,Ltd.            | YL0123-4G-A1     | 699 - 960MHz: $\leq 1\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 1\text{dBi}$<br>1710 - 2170MHz: $\leq 1\text{dBi}$<br>2300 - 2400MHz: $\leq 1\text{dBi}$<br>2496 - 2690MHz: $\leq 1\text{dBi}$ | 1 | 威盛-JT01-YL0123-4G-A1.pdf                                                 | 6/11 |
| 111 | Chip Antenna                           | EVER GREAT Tech CO., LTD.                        | ANT9176-BM       | 1.89                                                                                                                                                                                         | 3 | ANT9176(AA01-0025).pdf                                                   | 7/16 |
| 112 | Monopole                               | STAF corporation                                 | T17-058-1069     | 3                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 3 | No.3_T18-078-1127_技適申請用資料.pdf                                            |      |
| 115 | Dipole                                 | STAF corporation                                 | T18-079-1128     | 3                                                                                                                                                                                            | 3 | No.4_T18-079-1128_技適申請用資料.pdf                                            |      |
| 116 | Dipole                                 | STAF corporation                                 | T18-029-1102     | 3                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 3 | No.10_T18-037-1116(1018-474A)_ 技適申請用資料.pdf                               |      |
| 122 | Monopole                               | STAF corporation                                 | T18-051-1120     | 3                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 3 | No.14_T18-051-1119(1018-471A)_ 技適申請用資料(FPCAnt_MHF4L).pdf                 |      |
| 126 | Dipole                                 | STAF corporation                                 | T13-023          | 3                                                                                                                                                                                            | 3 | No.15_T13-023-1043(1018-391A)_ 技適申請用資料_U.FL 130mm.pdf                    |      |
| 127 | Dipole                                 | STAF corporation                                 | T18-023-1095     | 3                                                                                                                                                                                            | 3 | No.16_T18-023-1095(1018-455A)_ 技適申請用資料_U.FL130mm.pdf                     |      |
| 128 | Dipole                                 | STAF corporation                                 | T16-062-1015     | 3                                                                                                                                                                                            | 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                                                                                                                                                                                            | 3 | No.18_T16-062-1093 (1018-446A)_ 技適申請用資料.pdf                              |      |
| 130 | Dipole                                 | STAF corporation                                 | T16-062-1022     | 3                                                                                                                                                                                            | 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                                                                                                                                                                                            | 3 | No.20_T16-062-1094 (1018-451A)_ 技適申請用資料.pdf                              |      |
| 132 | Dipole                                 | STAF corporation                                 | T13-023-1001     | 3                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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                                                                                                                                                                                            | 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: $\leq 3\text{dBi}$<br>1920 – 1980 MHz: $\leq 3\text{dBi}$<br>1710 – 1785MHz: $\leq 3\text{dBi}$<br>880 – 915MHz: $\leq 3\text{dBi}$<br>830 – 845 MHz: $\leq 3\text{dBi}$<br>814 – 849MHz: $\leq 3\text{dBi}$ | 3 | 4G-FPC-L120MM-L.pdf            |
| 141   | FPC Antenna     | DONGGUAN IPD INDUSTRIAL CO.,LTD                      | 4G-FPC-L120MM-R          | 2496 – 2690MHz: $\leq 3\text{dBi}$<br>1920 – 1980 MHz: $\leq 3\text{dBi}$<br>1710 – 1785MHz: $\leq 3\text{dBi}$<br>880 – 915MHz: $\leq 3\text{dBi}$<br>830 – 845 MHz: $\leq 3\text{dBi}$<br>814 – 849MHz: $\leq 3\text{dBi}$ | 3 | 4G-FPC-L120MM-R.pdf            |
| 142   | Plastic Antenna | Guangdong Shenglu Telecommunication Tech. Co.,Ltd.   | SL10653N                 | 698- 960MHz: $\leq 2\text{dBi}$<br>1710 - 2700MHz: $\leq 2\text{dBi}$                                                                                                                                                        | 3 | SL10653N规格书                    |
| 143   | FPC             | Tian Frequency Intelligent Technology (Kunshan) Co., | TP962-E908-ANT           | 1.23                                                                                                                                                                                                                         | 3 | TP962-E908-ANT test report.ppt |
| 144   | Monopole        | Taoglas Limited.                                     | TG.09.0113               | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 01_TG.09.0113 & TG.09.0113W    |
| 144-1 | Monopole        | Taoglas Limited.                                     | TG.09.0113W              | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 145   | Dipole          | Taoglas Limited.                                     | TG.10.0113               | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 02_TG.10.0113                  |
| 146   | Monopole        | Taoglas Limited.                                     | TG.22.0112               | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 03_TG.22.0112                  |
| 147   | Dipole          | Taoglas Limited.                                     | TG.30.8113               | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 04_TG.30.8113& TG.30.8113W     |
| 147-1 | Dipole          | Taoglas Limited.                                     | TG.30.8113W              | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 148   | PIFA            | Taoglas Limited.                                     | PA.25A                   | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 05_PA.25A                      |
| 149   | PIFA            | Taoglas Limited.                                     | PA.700J                  | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 06_PA.700J                     |
| 150   | Dipole          | Taoglas Limited.                                     | PC30.07.0100A            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 07_PC.30.07.0100A              |
| 151   | Dipole          | Taoglas Limited.                                     | PC104.07.0165C           | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 08_PC104.07.0165C              |
| 152   | Monopole        | Taoglas Limited.                                     | PCS.06.A                 | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 09_PCS 06 A                    |
| 153   | Monopole        | Taoglas Limited.                                     | PCS.07.A                 | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 10_PCS.07.A                    |
| 154   | Monopole        | Taoglas Limited.                                     | PCS.66.A                 | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 11_PCS.66.A                    |
| 155   | Monopole        | Taoglas Limited.                                     | PCS.86.A                 | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 12_PCS.86.A                    |
| 156   | Dipole          | Taoglas Limited.                                     | FXP14.07.0100A           | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 13_FXP14.07.0100A              |
| 157   | Monopole        | Taoglas Limited.                                     | FXP40.07.0085A           | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 14_FXP40.07.0085A              |
| 158   | Monopole        | Taoglas Limited.                                     | G45.A.201111             | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 17_G45.A.201111                |
| 159   | Monopole        | Taoglas Limited.                                     | GA.107.201111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 18_GA.107.201111               |
| 160   | Monopole        | Taoglas Limited.                                     | GA.110.101111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 19_GA.110.101111               |
| 161   | Monopole        | Taoglas Limited.                                     | GA.120.301111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 20_GA.120.301111               |
| 162   | Dipole          | Taoglas Limited.                                     | GA.130.101111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 21_GA 130                      |
| 162-1 | Dipole          | Taoglas Limited.                                     | GA.130.201111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 162-2 | Dipole          | Taoglas Limited.                                     | GA.130.301111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 162-3 | Dipole          | Taoglas Limited.                                     | GA.130.501111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 163   | Dipole          | Taoglas Limited.                                     | GA.132.201111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 22_GA 132                      |
| 163-1 | Dipole          | Taoglas Limited.                                     | GA.132.301111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 163-2 | Dipole          | Taoglas Limited.                                     | GA.132.501111            | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 |                                |
| 164   | Dipole          | Taoglas Limited.                                     | GSA.8821.B.301111        | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 23_GSA.8821.B301111            |
| 165   | Dipole          | Taoglas Limited.                                     | GSA.8822.B.301111        | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 24_GSA.8822.B.301111           |
| 166   | Dipole          | Taoglas Limited.                                     | GSA.8826.A301111 Phoenix | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 25_GSA.8826.A301111            |
| 167   | Dipole          | Taoglas Limited.                                     | GSA.8830.A.201111        | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 27_GSA.8830.A.201111           |
| 168   | Dipole          | Taoglas Limited.                                     | MA203.A.AB.035           | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 32_MA203.A.AB.035              |
| 169   | PIFA            | Taoglas Limited.                                     | MA220.LB.001             | $\leq 3\text{dBi}$                                                                                                                                                                                                           | 3 | 33_MA220.LB.001                |

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|-------|----------------------------|------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------|
| 170   | PIFA                       | Taoglas Limited.                               | MA230.LBC.002             | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 34_MA230.LBC.002                                                          |
| 171   | Monopole                   | Taoglas Limited.                               | MA275.LBICG.002 (MIMO1)   | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 38_MA275.LBICG.002                                                        |
| 171-1 | Monopole                   | Taoglas Limited.                               | MA275.LBICG.002 (MIMO2)   | $\leq 3\text{dBi}$                                                                                                                                                               | 3                |                                                                           |
| 172   | Monopole                   | Taoglas Limited.                               | MA310.A.LB.001            | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 39_MA310.A.LB.001                                                         |
| 173   | Monopole                   | Taoglas Limited.                               | MA350.A.LBICG.003 (MIMO1) | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 40_MA350.A.LBICG.003                                                      |
| 173-1 | Monopole                   | Taoglas Limited.                               | MA350.A.LBICG.003 (MIMO2) | $\leq 3\text{dBi}$                                                                                                                                                               | 3                |                                                                           |
| 174   | PIFA                       | Taoglas Limited.                               | MA600.A.ABC.006           | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 43_MA600.A.ABC.006 Spartan                                                |
| 175   | Monopole                   | Taoglas Limited.                               | MA710.B.ABI.003 (MIMO1)   | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 44_MA710.B.ABI.001                                                        |
| 175-1 | Monopole                   | Taoglas Limited.                               | MA710.B.ABI.003 (MIMO2)   | $\leq 3\text{dBi}$                                                                                                                                                               | 3                |                                                                           |
| 176   | Monopole                   | Taoglas Limited.                               | MA741.B.BI.001 (MIMO1)    | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 45_MA741.B.BI.001                                                         |
| 176-1 | Monopole                   | Taoglas Limited.                               | MA741.B.BI.001 (MIMO2)    | $\leq 3\text{dBi}$                                                                                                                                                               | 3                |                                                                           |
| 177   | Monopole                   | Taoglas Limited.                               | TLS.01.305111             | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 49_TLS.01.305111                                                          |
| 178   | Monopole                   | Taoglas Limited.                               | TG.55.8113                | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 50_TG.55.8113                                                             |
| 179   | PIFA                       | Taoglas Limited.                               | PA.26A                    | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | 51_PA.26A                                                                 |
| 180   | Dipole                     | Staf corporation                               | 1018-437A                 | 1.21                                                                                                                                                                             | 3                | Staf_1018-437A_gain table.pdf                                             |
| 181   | Metal Antenna              | FORTE.INC                                      | 70064F                    | 790MHz ~2170MHz: 2.96dBi                                                                                                                                                         | 3                | LTE Antenna 70064FSpecification 0910                                      |
| 182   | dipole antenna             | NIPPON ANTENNA CO.,LTD                         | DP-BRO                    | 815-2170MHz: $\leq 3\text{dBi}$                                                                                                                                                  | 3                | DP-BRO_TELEC申請資料_120614.pdf                                               |
| 183   | The broadband type antenna | NIPPON ANTENNA CO.,LTD                         | DP-BRO-AD                 | 815-2170MHz: $\leq 3\text{dBi}$<br>2595-2625MHz: $\leq 3\text{dBi}$                                                                                                              | 3                | DP-BRO-AD_TELEC申請資料_110523.pdf                                            |
| 184   | The broadband type antenna | NIPPON ANTENNA CO.,LTD                         | DP-BRO-RE                 | 815-960MHz: $\leq 3\text{dBi}$<br>1447.9-1510.9MHz: $\leq 3\text{dBi}$<br>1920-2170MHz: $\leq 3\text{dBi}$<br>2496-2690MHz: $\leq 3\text{dBi}$                                   | 3                | DP-BRO-RE_電特性資料_150316.pdf                                                |
| 185   | TwoMIMO antenna            | NIPPON ANTENNA CO.,LTD                         | DP-BRO-MI2                | 719-2690MHz: $\leq 3\text{dBi}$                                                                                                                                                  | 3                | DP-BRO-MI2_電氣特性資料_150911.pdf                                              |
| 186   | TwoMIMO antenna            | NIPPON ANTENNA CO.,LTD                         | WH-MI2-S                  | 814-960MHz: $\leq 3\text{dBi}$<br>1427-2170MHz: $\leq 3\text{dBi}$                                                                                                               | 3                | WH-MI2-S_180403.pdf                                                       |
| 187   | TwoMIMO antenna            | NIPPON ANTENNA CO.,LTD                         | WH-MI2-S-2.5(W)           | 830-960MHz: $\leq 3\text{dBi}$<br>1710-2170MHz: $\leq 3\text{dBi}$                                                                                                               | 3                | WH-MI2-S-2.5(W)_180119.pdf                                                |
| 188   | FPC antenna                | NIPPON ANTENNA CO.,LTD                         | DP-INF-100(UA)            | 814-894MHz: $\leq 3\text{dBi}$<br>1427.9-1510.9MHz: $\leq 3\text{dBi}$<br>1575.42MHz: $\leq 3\text{dBi}$<br>1602.5625MHz: $\leq 3\text{dBi}$<br>1710-2170MHz: $\leq 3\text{dBi}$ | 3                | 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: $\leq 3\text{dBi}$                                                                                                                                               | 3                | TELEC_DP-920-INF3-100_180227.pdf                                          |
| 190   | FPC antenna                | NIPPON ANTENNA CO.,LTD                         | DP-920-INF1-100           | 915.9-928.1MHz: $\leq 3\text{dBi}$                                                                                                                                               | 3                | TELEC_DP-920-INF1-100_180227.pdf                                          |
| 191   | Whip antenna               | NIPPON ANTENNA CO.,LTD                         | WH-08/2G-L                | 770-2170MHz: $\leq 3\text{dBi}$                                                                                                                                                  | 3                | 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<br>2.0dBi                                                                                                                                               | 3                | GSM_WA900C1_J3M.pdf                                                       |
| 193   | Magnetic antenna           | CHANG HONG Information Co Ltd                  | DA-0727-07-174-4M-0102    | 700 - 960MHz: $< 3\text{dBi}$<br>1700-2700MHz: $< 3\text{dBi}$                                                                                                                   | 3                | DA-0727-07-174-4M-0102 (test report).pdf                                  |
| 194   | Dipole External Antenna    | ARTSIGNAL CO., LTD.                            | ARTS-MLEM-030             | 821 - 960MHz: $\leq 2\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 4\text{dBi}$                                                                     | FDD: 3<br>TDD: 4 | Approval Sheet_ONFACE_OMDI_LV101xJP_S LTE External Antenna 2019.10.04.pdf |
| 195   | LTE FPC Antenna            | Shanghai Roadeo Technology Co.,Ltd             | 70108A                    | $\leq 3\text{dBi}$                                                                                                                                                               | 3                | EF820 LTE Antenna 70108A FSpecification 19.8.2                            |
| 196   | Monopole                   | JIAXING JINCHANG ELECTRONIC TECHNOLOGY CO.,LTD | MCG016J                   | 698 - 960MHz: $\leq 2\text{dBi}$<br>1710 - 2690MHz: $\leq 2\text{dBi}$                                                                                                           | 2                | MCG016J.pdf                                                               |

|     |                                |                                                      |                                               |                                                                                                                   |     |                                                   |
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| 197 | Window antenna                 | JIAXING JINCHANG<br>ELECTRONIC TECHNOLOGY<br>CO.,LTD | MCG017J                                       | 698 - 960MHz: $\leq 2\text{dBi}$<br>1710 - 2690MHz: $\leq 2\text{dBi}$                                            | 2   | MCG017J.pdf                                       |
| 198 | FPCB Antenna                   | JIAXING JINCHANG<br>ELECTRONIC TECHNOLOGY<br>CO.,LTD | MCG139J                                       | $\leq 2\text{dBi}$                                                                                                | 2   | MCG139J.pdf                                       |
| 199 | PCB Antenna                    | JIAXING JINCHANG<br>ELECTRONIC TECHNOLOGY<br>CO.,LTD | MCG142J                                       | $\leq 3\text{dBi}$                                                                                                | 3   | MCG142J.pdf                                       |
| 200 | FPCB Antenna                   | JIAXING JINCHANG<br>ELECTRONIC TECHNOLOGY<br>CO.,LTD | MCG146J                                       | $\leq 2\text{dBi}$                                                                                                | 2   | MCG146J.pdf                                       |
| 201 | LTE Antenna                    | JIAXING JINCHANG<br>ELECTRONIC TECHNOLOGY<br>CO.,LTD | MCG410J                                       | $\leq 3\text{dBi}$                                                                                                | 3   | MCG410J.pdf                                       |
| 202 | FPCB Antenna                   | ShenZhen Powerful<br>Technology CO., Limited         | YL0196-LTE-A0                                 | 698 - 960MHz: $\leq 2.5\text{dBi}$<br>1710 - 2690MHz: $\leq 2.5\text{dBi}$                                        | 2.5 | YL0196-LTE-A0.pdf                                 |
| 203 | LTE Antenna                    | ShenZhen Powerful<br>Technology CO., Limited         | YL-4G-W1015                                   | 824 - 960MHz: $\leq 0.3\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                          | 3   | YL-4G-W1015.pdf                                   |
| 204 | LTE Antenna                    | Shenzhen SKYLink<br>Technology Co.,Ltd               | FG06A                                         | $\leq 3\text{dBi}$                                                                                                | 3   | FG06A 4G 外置天线规格书.pdf                              |
| 205 | LTE +GPS Antenna               | Shenzhen SKYLink<br>Technology Co.,Ltd               | GZZJ.SKCA04A                                  | $\leq 2\text{dBi}$                                                                                                | 2   | 组合天线 GZZJ.SKCA04A.pdf                             |
| 206 | Magnetic antenna with 2m Cable | AMIT Wireless Inc.                                   | RFA-LTE-T42-U-M70-1 + CX-<br>6500SAA0P0200-XX | 698- 960MHz: $\leq 0\text{dBi}$<br>1710 - 2170MHz: $\leq 1.5\text{dBi}$<br>2300-2700 MHz: $\leq 2$                | 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-<br>6500SAA0P0300-AX | 698- 960MHz: $\leq 0\text{dBi}$<br>1710 - 2170MHz: $\leq 1\text{dBi}$<br>2300-2700 MHz: $\leq 1.5$                | 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-<br>6500SAA0P0500-XX | 698- 960MHz: $\leq 0\text{dBi}$<br>1710 - 2170MHz: $\leq 0.5\text{dBi}$<br>2300-2700 MHz: $\leq 1$                | 1   | 03. RFA-LTE-T42-U-M70-1 + CX-6500SAA0P0500-XX.pdf |
| 209 | Magnetic antenna with 2m Cable | AMIT Wireless Inc.                                   | GY115HT467-037 + CX-<br>6500SAA0P0200-XX      | 698- 960MHz: $\leq 2.5\text{dBi}$<br>1710 - 2690MHz: $\leq 3\text{dBi}$                                           | 3   | 04. GY115HT467-037 + CX-6500SAA0P0200-XX.pdf      |
| 210 | Magnetic antenna with 3m Cable | AMIT Wireless Inc.                                   | GY115HT467-037 +CX-<br>6500SAA0P0300-AX       | 698- 960MHz: $\leq 2\text{dBi}$<br>1710 - 2690MHz: $\leq 2.5\text{dBi}$                                           | 2.5 | 05. GY115HT467-037 +CX-6500SAA0P0300-AX.pdf       |
| 211 | Magnetic antenna with 5m Cable | AMIT Wireless Inc.                                   | GY115HT467-037 +CX-<br>6500SAA0P0500-XX       | 698- 960MHz: $\leq 1.5\text{dBi}$<br>1710 - 2690MHz: $\leq 2\text{dBi}$                                           | 2   | 06. GY115HT467-037 +CX-6500SAA0P0500-XX.pdf       |
| 212 | Magnetic antenna with 2m Cable | AMIT Wireless Inc.                                   | GY115HT467-017 + CX-<br>6500SAA0P0200-XX      | 698- 960MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2690MHz: $\leq 3\text{dBi}$       | 3   | 07. GY115HT467-017 + CX-6500SAA0P0200-XX.pdf      |
| 213 | Magnetic antenna with 3m Cable | AMIT Wireless Inc.                                   | GY115HT467-017 + CX-<br>6500SAA0P0300-AX      | 698- 960MHz: $\leq 2.5\text{dBi}$<br>1710 - 2170MHz: $\leq 2.5\text{dBi}$<br>2300 - 2690MHz: $\leq 2.5\text{dBi}$ | 2.5 | 08. GY115HT467-017 + CX-6500SAA0P0300-AX.pdf      |
| 214 | Magnetic antenna with 5m Cable | AMIT Wireless Inc.                                   | GY115HT467-017 + CX-<br>6500SAA0P0500-XX      | 698- 960MHz: $\leq 2\text{dBi}$<br>1710 - 2170MHz: $\leq 2\text{dBi}$<br>2300 - 2690MHz: $\leq 2\text{dBi}$       | 2   | 09. GY115HT467-017 + CX-6500SAA0P0500-XX.pdf      |
| 215 | Magnetic antenna with 2m Cable | AMIT Wireless Inc.                                   | YHX-2102SAXX-150 + CX-<br>6500SAA0P0200-XX    | 698- 960MHz: $\leq 1.5\text{dBi}$<br>1710 - 2700MHz: $\leq 1.5\text{dBi}$                                         | 1.5 | 10. YHX-2102SAXX-150 + CX-6500SAA0P0200-XX.pdf    |
| 216 | Magnetic antenna with 3m Cable | AMIT Wireless Inc.                                   | YHX-2102SAXX-150 + CX-<br>6500SAA0P0300-AX    | 698- 960MHz: $\leq 1\text{dBi}$<br>1710 - 2700MHz: $\leq 1\text{dBi}$                                             | 1   | 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: $\leq 0.5\text{dBi}$<br>1710 - 2700MHz: $\leq 0.5\text{dBi}$                                         | 0.5 | 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: $\leq 0\text{dBi}$<br>1710 - 2170MHz: $\leq 1.5\text{dBi}$<br>2300-2700 MHz: $\leq 2$                | 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: $\leq 0\text{dBi}$<br>1710 - 2170MHz: $\leq 1\text{dBi}$<br>2300-2700 MHz: $\leq 1.5$                | 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: $\leq 0\text{dBi}$<br>1710 - 2170MHz: $\leq 0.5\text{dBi}$<br>2300-2700 MHz: $\leq 1$                | 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: $\leq 2.5\text{dBi}$<br>1710 - 2690MHz: $\leq 2.5\text{dBi}$                                         | 2.5 | 16. GY115HT467-037 + CX-SAA0SAZ0P0200-XX.pdf      |
| 222 | Omni-Directional with 3m Cable                                      | AMIT Wireless Inc.           | GY115HT467-037 + CX-SAA0SAZ0P0300-XX      | 698-960MHz: $\leq 2\text{dBi}$<br>1710 - 2690MHz: $\leq 2\text{dBi}$                                             | 2   | 17. GY115HT467-037 + CX-SAA0SAZ0P0300-XX.pdf      |
| 223 | Omni-Directional with 5m Cable                                      | AMIT Wireless Inc.           | GY115HT467-037 + CX-SAA0SAZ0P0500-XX      | 698-960MHz: $\leq 1.5\text{dBi}$<br>1710 - 2690MHz: $\leq 1.5\text{dBi}$                                         | 1.5 | 18. GY115HT467-037 + CX-SAA0SAZ0P0500-XX.pdf      |
| 224 | Omni-Directional with 2m Cable                                      | AMIT Wireless Inc.           | GY115HT467-017 + CX-SAA0SAZ0P0200-XX      | 698-960MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2690MHz: $\leq 3\text{dBi}$       | 3   | 19. GY115HT467-017 + CX-SAA0SAZ0P0200-XX.pdf      |
| 225 | Omni-Directional with 3m Cable                                      | AMIT Wireless Inc.           | GY115HT467-017+ CX-SAA0SAZ0P0300-XX       | 698-960MHz: $\leq 2.5\text{dBi}$<br>1710 - 2170MHz: $\leq 2.5\text{dBi}$<br>2300 - 2690MHz: $\leq 2.5\text{dBi}$ | 2.5 | 20. GY115HT467-017 + CX-SAA0SAZ0P0300-XX.pdf      |
| 226 | Omni-Directional with 5m Cable                                      | AMIT Wireless Inc.           | GY115HT467-017 + CX-SAA0SAZ0P0500-XX      | 698-960MHz: $\leq 2\text{dBi}$<br>1710 - 2170MHz: $\leq 2\text{dBi}$<br>2300 - 2690MHz: $\leq 2\text{dBi}$       | 2   | 21. GY115HT467-017 + CX-SAA0SAZ0P0500-XX.pdf      |
| 227 | Omni-Directional with 2m Cable                                      | AMIT Wireless Inc.           | YHX-2102SAXX-150 + CX-SAA0SAZ0P0200-XX    | 698-960MHz: $\leq 1.5\text{dBi}$<br>1710 - 2700MHz: $\leq 1.5\text{dBi}$                                         | 1.5 | 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: $\leq 1\text{dBi}$<br>1710 - 2700MHz: $\leq 1\text{dBi}$                                             | 1   | 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: $\leq 2\text{dBi}$<br>1710 - 2700MHz: $\leq 2\text{dBi}$                                             | 2   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 1\text{dBi}$                                             | 1   | 26. ZPF-1003SAW9-121Z0500.pdf                     |
| 232 | dipo Antenna                                                        | Whu Yu Industrial Co., Ltd.  | C381-690270-A (SRF2017673)                | 698-960MHz: $\leq 3\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 27. C381-690270-A (SRF2017673).pdf                |
| 233 | dipo Antenna                                                        | Aristotle Enterprises Inc.   | RFA-LTE-T42-U-M70-1                       | 698-960MHz: $\leq 3\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 28. RFA-LTE-T42-U-M70-1.pdf                       |
| 234 | IP-67 Omni-Directional                                              | Joymax Electronics Co., Ltd. | YHX-2102SAXX-150                          | 698-960MHz: $\leq 2\text{dBi}$<br>1710 - 2700MHz: $\leq 2\text{dBi}$                                             | 2   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                             | 3   | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                                                                                                               | 3 | 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: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                                                                                                               | 3 | 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: $\leq 1\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                                                                                                               | 3 | 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: $\leq 1\text{dBi}$<br>1710 - 2700MHz: $\leq 3\text{dBi}$                                                                                                                               | 3 | 39. YHF-8045SAWX-121P0500.pdf                                            |
| 245 | LTE Antenna                                             | Aristotle Enterprises Inc.        | RFA-LTE-AP770-70B150            | 698-960MHz: $\leq 0\text{dBi}$<br>1710 - 2700MHz: $\leq 2\text{dBi}$                                                                                                                               | 3 | 40. RFA-LTE-AP770-70B150.pdf                                             |
| 246 | Patch antenna                                           | Joymax Electronics Co., LTD.      | QPF-A051SA5X-508                | 824-960MHz: $\leq 3\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$                                                                                                                               | 3 | QPF-A051SA5X-508                                                         |
| 247 | PCB Antenna                                             | Alpha Networks Inc.               | 8LTNE400M0A1G                   | 830~890 MHz: $\leq -0.1\text{dBi}$<br>1920~2170 MHz: $\leq 2.3\text{dBi}$                                                                                                                          | 3 | 8LTNE400M0A1G                                                            |
| 248 | Cable Antenna                                           | WHA YU industrial Co.,LTD         | C037-511126                     | 815-960MHz: $\leq 30\text{dBi}$<br>1920 - 2170MHz: $\leq -1\text{dBi}$                                                                                                                             | 3 | C037-511126-A(SZ1509-0027)(X11)-SPEC--HG樣品單-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: $\leq 2.0\text{dBi}$<br>1447.9 - 1510.9MHz: $\leq 2.5\text{dBi}$<br>1710 - 2170MHz: $\leq 3\text{dBi}$<br>2300 - 2400MHz: $\leq 3\text{dBi}$<br>2496 - 2690MHz: $\leq 3.5\text{dBi}$ | 3 | JZC-FPC-4G-Japan-0204-04050-V01.pdf                                      |