* **Spesifikasi Antena Merek Andrew (TBXLHA-6565C-VTM)**

Berikut adalah spesifikasi antena yang digunakan pada BTS Perum Perdana:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Frequency Band (MHz) | 824 – 896 | 870 – 960 | 1710 – 1880 | 1850 – 1990 | 1920 - 2180 |
| Gain, (dBi) | 16,9 | 17,6 | 16,8 | 17,1 | 17,0 |
| Beamwidth, Horizontal, (degrees) | 70 | 67 | 65 | 62 | 59 |
| Beamwidth, Vertical, (degrees) | 7,4 | 7,1 | 7,2 | 6,9 | 6,7 |
| Beam tilt, (degrees) | 0 – 8 | 0 – 8 | 2 – 10 | 2 -10 | 2 – 10 |
| USLS (First Lobe), (dB) | 17 | 17 | 18 | 16 | 15 |
| Front-to-back Ratio at 180o, (dB) | 25 | 25 | 28 | 26 | 25 |
| CPR at Boresight, (dB) | 23 | 24 | 14 | 14 | 14 |
| CPR at Sector, (dB) | 11 | 9 | 5 | 5 | 5 |
| Isolation, (dB) | 30 | 30 | 30 | 30 | 30 |
| Isolation, Intersystem, (dB) | 30 | 30 | 30 | 30 | 30 |
| VSWR Return Loss, (dB) | 1,5 │ 14,0 | 1,5 │ 14,0 | 1,5 │ 14,0 | 1,5 │ 14,0 | 1,5 │ 14,0 |
| PIM, 3rd Order, 2 x 20W, (dBc) | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port, max, (watt) | 350 | 350 | 350 | 350 |  |
| Polarization | ± 45o | ± 45o | ± 45o | ± 45o | ± 45o |

* **Spesifikasi Antena Merek Tongyu (TDQ-182020DE-65F).**

Berikut adalah spesifikasi antena yang digunakan pada BTS TB\_Purnama2:

|  |  |  |  |
| --- | --- | --- | --- |
| Frequency Range (MHz) | 1710 - 1880 | 1850 - 1990 | 1920 - 2170 |
| Polarization | ± 45o | | |
| Gain (dBi) | 19 | 19,3 | 19,5 |
| Horizontal 3dB beamwidth (degree) | 66 | 65 | 63 |
| Vertical 3dB beamwidth (degree) | 5 | 4,6 | 4,3 |
| Front-to-back ratio (dB) | ≥ 25 | | |
| Cross-polar ratio (dB) | ≥ 15 (Typically ± 60o ≥10) | | |
| Electrical downtilt (degree) | 0 - 6 | | |
| Sidelobe suppression (dB)  (First sidelobe above main beam) | 0o...3o...6o  16...15...15 | 0o...3o...6o  16...15...15 | 0o...3o...6o  16...15...15 |
| VSWR | < 1,5 | | |
| Isolation: intra-system (dB) | ≥ 30 | | |
| Intermodulation IM3  (2 x 43dBm carrier) | ≤ -150 dBc | | |
| Impedance (ohm) | 50 | | |
| Max. Power per input (W) @50oC | 300 | | |
| Lighting protection | Dc Ground | | |