**TDD : X Pol 1880~1920/2010~2025/2575~2635MHz 100/90/65°±15° 12/13/14.5dBi 6° Fixed**

**FDD : X Pol 870~960 MHz 65° 15dBi 0~14°Manual or by optional RCU (Remote Control Unit)**

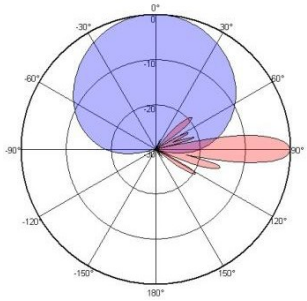
| Electrical specifications | | | | | |
|---|---|---|---|---|---|
| General parameters | Frequency range(MHz) | | 1880-1920(F) | 2010-2025(A) | 2575-2635(D) |
| | Polarization | | ±45° | | |
| | Electrical downtilt(°) | | 6 | 6 | 6 |
| | Electrical downtilt tolerance(°) | | ±1 | ±1 | ±1 |
| Calibration and electrical parameters | Coupling factor between calibration port and each antenna port(dB) | | -26±2 | -26±2 | -26±2 |
| | Max.amplitude tolerance from calibration port to input ports(dB) | | <0.7 | <0.7 | <0.7 |
| | Max.phase tolerance from calibration port to input ports(°) | | ≤5 | ≤5 | ≤5 |
| | Ports VSWR | | ≤1.5 | ≤1.5 | ≤1.5 |
| | Co-polarization isolation between ports(dB) | | ≥25 | ≥25 | ≥25 |
| | Cross-polarization isolation between ports(dB) | | ≥28 | ≥28 | ≥28 |
| Radiation parameters | Single column beam | Horizontal 3dB beam width(°) | 100±15 | 90±15 | 65±15 |
| | | Gain(dBi) | ≥12 | ≥13 | ≥14.5 |
| | | ±60°Gain roll-off at sector edge(dB) | / | / | -12±2 |
| | | Vertical 3dB beam width(°) | / | / | ≥9 |
| | | Cross polar ratio(0°)(dB) | ≥15 | ≥15 | ≥15 |
| | | Cross polar ratio(±60°)(dB) | ≥10 | ≥10 | ≥10 |
| | | Front to back ratio(dB) | ≥23 | ≥23 | ≥25 |
| | | Vertical sidelobe suppression for first sidelobe above main beam(dB) | / | / | ≤-16 |
| | 65° Broadcast beam | Horizontal 3dB beam width(°) | 65±5 | 65±5 | 65±5 |
| | | Gain(dBi) | ≥12 | ≥13 | ≥14 |
| | | ±60°Gain roll-off at sector edge(dB) | -12±2 | -12±2 | -12±2 |
| | | Vertical 3dB beam width(°) | ≥12 | ≥11 | ≥9 |
| | | Cross polar ratio(0°)(dB) | ≥22 | ≥22 | ≥22 |
| | | Cross polar ratio(±60°)(dB) | ≥10 | ≥10 | ≥10 |
| | | Front to back ratio(dB) | ≥28 | ≥28 | ≥28 |
| | | Vertical sidelobe suppression for first sidelobe above main beam(dB) | ≤-16 | ≤-16 | ≤-16 |
| | Service beam | 0° direct beam gain(dBi) | ≥17.5 | ≥18.5 | ≥20 |
| | | 0° direct beam horizontal 3dB beam width(°) | ≤29 | ≤26 | ≤25 |
| | | 0° direct beam sidelobe suppression(dB) | ≤-12 | ≤-12 | ≤-12 |
| | | ±60° direct beam gain(dBi) | ≥15.5 | ≥16.5 | ≥16.5 |
| | | ±60° direct beam horizontal 3dB beam width(°) | ≤33 | ≤33 | ≤23 |
| | | ±60° direct beam horizontal sidelobe suppression(dB) | ≤-5 | ≤-5 | ≤0 |
| | | 0° direct beam cross polar ratio(axial)(dB) | ≥22 | ≥22 | ≥22 |
| | | 0° direct beam front to back ratio(dB) | ≥28 | ≥28 | ≥28 |

| Electrical specifications - FDD | |
|---|---|
| Frequency Range(MHz) | 870~960 |
| Polarization | ±45° |
| Gain (dBi) | 14.5 |
| Electrical downtilt (°) | 0~14 |
| Horizontal-3dB beamwidth (°) | 65 |
| Vertical-3dB beamwidth (°) | 13 |
| Sidelobe suppression (dB)<br>(First sidelobe above main beam) | 0°...5°...10°...14°<br>16...16...15…14 |
| Front-to-back ratio (dB) | ≥25 |
| Isolation: intra-system (dB) | ≥30 |
| Cross-polar ratio (dB) | ≥15 (±60° ≥10 ) |
| Impedance (Ω) | 50 |
| VSWR | ≤1.5 |
| Intermodulation IM3<br>(2×43dBm carrier) | ≤-138dBc |
| Max. power per input (W) | 250 |
| Lightning protection | DC Ground |

| Electrical specifications - Combined | |
|---|---|
| 1 TDD and FDD Same polarization isolation between different antennas (SA1/SB5) | ≥40 |
| 2 TDD and FDD Different polarization isolation between different antennas(SA5/SB1) | ≥40 |

| Mechanical specifications | |
|---|---|
| Connector position | Bottom |
| Connector type | TDD:2× Assemble Connector-Male<br>FDD:2×7/16 DIN-Female |
| Antenna dimensions H×W×D(mm) | 2085×320×140 |
| Packing size H×W×D (mm) | 2200×410×240 |
| Antenna weight (kg) | 24.1 |
| Installation kit weight (kg) | 4.8 |
| Packing weight (kg) | 32.2 |
| Radome material | Fiberglass |
| Radome color | Gray |
| Wind load (N,at 150km/h)<br>Frontal/Lateral/Rearside | 646/767/212 |
| Max. wind velocity(km/h) | 216 |
| Humidity | ≤ 100% |
| Operating temperature (℃) | -40~60 |
| Mechanical adjustment tilt range (°) | 0~10 |
| Mounting hardware (mm) | Φ50~Φ115 |

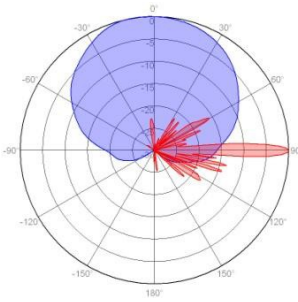
## Pattern specifications - FDD



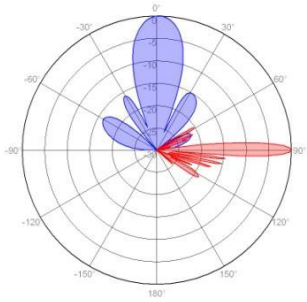
870～960MHz

## Pattern specifications - TDD

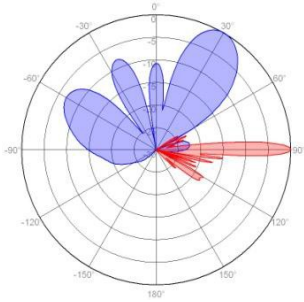
### 2018MHz



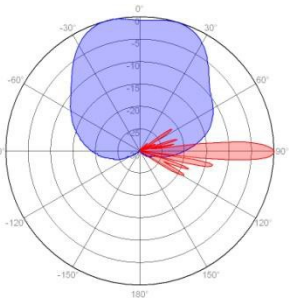
Single Column Beam



0 ° Service Beam

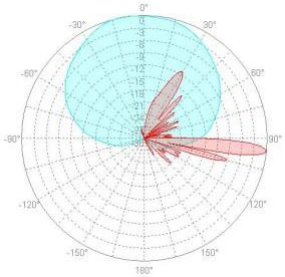


60 ° Service Beam

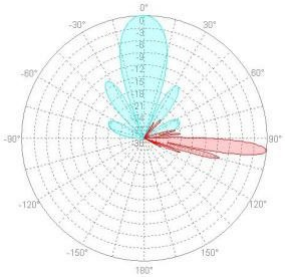


BCH Beam

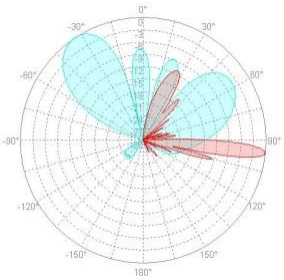
### 2600MHz



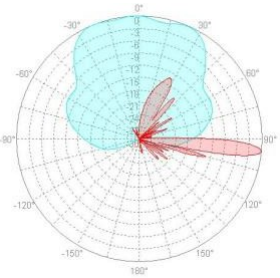
Single Column Beam



0 ° Service Beam



60 ° Service Beam



BCH Beam