

XXXXXPoI 698~960MHz/1710~2170MHz×2/2490~2690MHz×2 65°/65°/65° 16/17.3/17.8dBi
 0°~10°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical specifications

| Frequency Range (MHz) | 698~960 | | | |
|---|-----------|----------|----------|----------|
| | 698~803 | 790~862 | 824~894 | 880~960 |
| Polarization | ±45° | | | |
| Gain at mid tilt (dBi) | 15.5 | 15.8 | 16.0 | 16.1 |
| Gain over all tilts (dBi) | 15.3±0.3 | 15.6±0.4 | 15.8±0.4 | 15.9±0.4 |
| Horizontal 3dB beamwidth (°) | 68±3 | 65±3 | 64±3 | 62±3 |
| Vertical 3dB beamwidth (°) | 11.3±0.8 | 10.4±0.6 | 10.1±0.7 | 9.6±0.6 |
| Front to back ratio (dB) Total power, ±30° | >25 | >25 | >26 | >26 |
| Cross polar ratio (dB) (at Boresight) | >16 | >16 | >16 | >16 |
| Electrical downtilt (°) | 0~10 | | | |
| Sidelobe suppression (dB) (First sidelobe above main beam) | >17 | >17 | >17 | >17 |
| VSWR | <1.5 | | | |
| Isolation: intra-system (dB) | ≥25 | | | |
| Isolation: inter-system (dB) | ≥30 | | | |
| Intermodulation IM3 (2×43dBm carrier) | ≤-153 dBc | | | |
| Impedance (Ω) | 50 | | | |
| Max. power per input (W) @50°C | 400 | | | |
| Lightning protection | Dc Ground | | | |

Electrical specifications

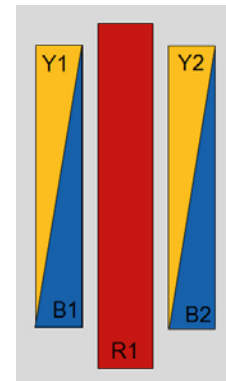
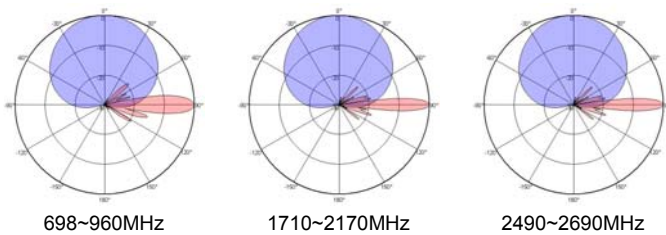
| Frequency Range (MHz) | B1/B2-1710~2170 | | | Y1/Y2-2490~2690 |
|---|-----------------|-----------|-----------|-----------------|
| | 1710~1880 | 1850~1990 | 1920~2170 | 2490~2690 |
| Polarization | ±45° | | | |
| Gain at mid tilt (dBi) | 17.0 | 17.2 | 17.5 | 17.8 |
| Gain over all tilts (dBi) | 16.8±0.5 | 17.0±0.5 | 17.3±0.5 | 17.6±0.5 |
| Horizontal 3dB beamwidth (°) | 67±6 | 60±5 | 60±6 | 66±5 |
| Vertical 3dB beamwidth (°) | 7.5±0.5 | 6.5±0.5 | 5.7±0.4 | 5.2±0.4 |
| Front to back ratio (dB) Total power, ±30° | >25 | >25 | >25 | >24 |
| Cross polar ratio (dB) (at Boresight) | >16 | >16 | >16 | >16 |
| Electrical downtilt (°) | 2~12 | | | |
| Sidelobe suppression (dB) (First sidelobe above main beam) | >17 | >17 | >17 | >16 |
| VSWR | <1.5 | | | |
| Isolation: intra-system (dB) | ≥25 | | | |
| Isolation: inter-system (dB) | ≥30 | | | |
| Intermodulation IM3 (2×43dBm carrier) | ≤-153 dBc | | | |
| Impedance (Ω) | 50 | | | |
| Max. power per input (W) @50°C | 200 | | | |
| Lightning protection | Dc Ground | | | |

Mechanical specifications

| | |
|--|------------------|
| Connector | 10×4.3-10-Female |
| Connector position | Bottom |
| Height × width × depth (mm) | 2080×355×165 |
| Packing size (mm) | 2415×460×260 |
| Antenna weight (kg) | 30.5 |
| Installation kit weight (kg) | 5.4 |
| Packing weight (kg) | 41 |
| Wind load (N,at 150km/h) Frontal/Lateral/Rearside | 970/200/1230 |
| Max. wind velocity (km/h) | 216 |
| Radome material | Fiberglass |
| Radome color | Gray |
| Mechanical tilt (°) | 0~10 |
| Operating temperature (°C) | -50~65 |
| Mounting hardware (mm) | Φ50~Φ115 |


Integrated RET properties

| | |
|------------------------------|---|
| RET model | TRCU-TQ10P2V01 |
| RET type | Integrated (Replaceable) |
| RET protocol | AISG 2.0/3GPP |
| Power supply(V) | 10-30 DC |
| Power consumption(W) | ≤0.6 (Idle,12V),≤6 (In motion,12V) |
| Adjustment time (Full Range) | < 4Mins |
| Adjustment cycles | > 50,000 |
| Temperature range (°C) | 40~65 |
| Lightning protection | 3KA(8/20μs) @ Pin5 & Pin3; 5KA(8/20μs) @ Pin1 / Pin6 & Pin7 |
| Connectors | 2×8 Pin circle connector according to IEC 60130-9 and AISG. Daisy chain in:Male,Daisy chain out:Female Pin1:12V;Pin3:RS485B;Pin5:RS485A;Pin6:10-30V; Pin7:GND;Pin2&Pin4&Pin8:N/C |


Antenna pattern sample for reference


| Ant Array | RET Unique ID |
|-----------|----------------|
| R1 | TY00000.....R1 |
| B1 | TY00000.....B1 |
| B2 | TY00000.....B2 |
| Y1 | TY00000.....Y1 |
| Y2 | TY00000.....Y2 |