

XXXPol 698~960MHz/1710~2690MHz×2 65°/65° 15/18dBi 2°~14°/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) | 14.2 | 14.6 | 14.9 | 15.1 |
| Gain over all tilts (dBi) | 14.0±0.4 | 14.4±0.4 | 14.7±0.4 | 14.9±0.5 |
| Horizontal 3dB beamwidth (°) | 70±4 | 67±3 | 66±3 | 64±3 |
| Vertical 3dB beamwidth (°) | 16.1±1.4 | 14.7±0.8 | 14.1±1.0 | 12.9±0.8 |
| Front to back ratio (dB) Total power, ±30° | >24 | >24 | >25 | >25 |
| Cross polar ratio (dB) (at Boresight) | >19 | >19 | >18 | >18 |
| Electrical downtilt (°) | 2~14 | | | |
| Sidelobe suppression (dB) (First sidelobe above main beam) | >16 | >17 | >17 | >18 |
| 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 | | | |

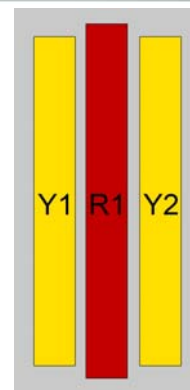
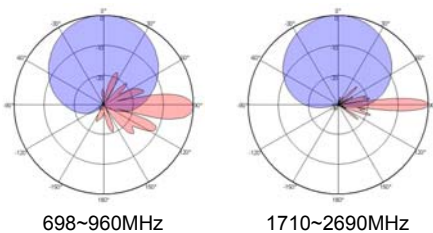
| Electrical specifications | | | | |
|---|-------------|-----------|-----------|-----------|
| Frequency Range (MHz) | 1710~2690×2 | | | |
| | 1710~1920 | 1920~2200 | 2200~2500 | 2500~2690 |
| Polarization | ±45° | | | |
| Gain at mid tilt (dBi) | 17.5 | 18.0 | 18.1 | 17.5 |
| Gain over all tilts (dBi) | 17.3±0.5 | 17.7±0.5 | 17.8±0.5 | 17.3±0.8 |
| Horizontal 3dB beamwidth (°) | 66±8 | 59±6 | 60±6 | 67±6 |
| Vertical 3dB beamwidth (°) | 7.1±0.5 | 6.4±0.5 | 5.5±0.4 | 5±0.4 |
| Front to back ratio (dB) Total power, ±30° | >23 | >24 | >23 | >23 |
| Cross polar ratio (dB) (at Boresight) | >22 | >21 | >21 | >20 |
| Electrical downtilt (°) | 2~12 | | | |
| Sidelobe suppression (dB) (First sidelobe above main beam) | >17 | >16 | >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 | 6×4.3-10-Female |
| Connector position | Bottom |
| Height × width × depth (mm) | 1499×355×165 |
| Packing size (mm) | 1835×460×260 |
| Antenna weight (kg) | 19.7 |
| Installation kit weight (kg) | 5.4 |
| Packing weight (kg) | 28.8 |
| Wind load (N,at 150km/h) Frontal/Lateral/Rearside | 598/187/669 |
| Max. wind velocity (km/h) | 216 |
| Radome material | Fiberglass |
| Radome color | Gray |
| Mechanical tilt (°) | 0~15 |
| 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 |
| Y1 | TY00000.....Y1 |
| Y2 | TY00000.....Y2 |