

XXXXP01 698~960MHz/1710~2690MHz/1710~2690MHz×2 65°/65°/65° 15.6/17.6/18dBi 2°
~12°/2°~12°/2°~12° Integrated and replaceable RCU (Remote Control Unit) Antenna

Electrical specifications

| Frequency Range (MHz) | C-R1-698~960 | | | C-Y2-1710~2690 | | | |
|---|--------------|----------|----------|----------------|-----------|-----------|-----------|
| | 698~806 | 790~894 | 880~960 | 1710~1990 | 1920~2200 | 2200~2490 | 2490~2690 |
| Polarization | ±45° | | | ±45° | | | |
| Gain at mid tilt (dBi) | 14.6 | 15 | 15.6 | 17 | 17.2 | 17.6 | 17.5 |
| Gain over all tilts (dBi) | 14.4±0.5 | 14.8±0.5 | 15.4±0.6 | 16.8±0.6 | 17±0.7 | 17.4±0.6 | 17.3±0.7 |
| Horizontal 3dB beamwidth (°) | 68±4 | 66±4 | 64±3.5 | 67±7 | 66±6 | 60±6 | 58±7 |
| Vertical 3dB beamwidth (°) | 11.3±0.8 | 9.8±1.1 | 9.3±0.8 | 7.1±0.6 | 6.5±0.5 | 5.8±0.6 | 5.0±0.4 |
| Front to back ratio (dB) Total power, ±30° | >23 | >24 | >24 | >26 | >26 | >25 | >24 |
| Cross polar ratio (dB) (at Boresight) | >20 | >20 | >20 | >18 | >18 | >17 | >16 |
| Electrical downtilt (°) | 2~12 | | | 2~12 | | | |
| Sidelobe suppression (dB) (First sidelobe above main beam) | >17 | >17 | >16 | >18 | >17 | >16 | >15 |
| VSWR | <1.5 | | | <1.5 | | | |
| Isolation: intra-system (dB) | >25 | | | >25 | | | |
| Isolation: inter-system (dB) | >28 | | | >28 | | | |
| Intermodulation IM3 (2×43dBm carrier) | ≤-153 dBc | | | ≤-153 dBc | | | |
| Impedance (Ω) | 50 | | | 50 | | | |
| Max. power per input (W) @50°C | 500 | | | 250 | | | |
| Lightning protection | DC Ground | | | | | | |

Electrical specifications

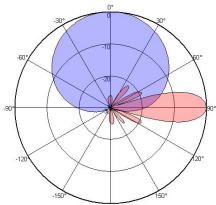
| Frequency Range (MHz) | L-Y1/R-Y3 -1710~2690 | | | |
|---|----------------------|-----------|-----------|-----------|
| | 1710~1990 | 1920~2200 | 2200~2490 | 2490~2690 |
| Polarization | ±45° | | | |
| Gain at mid tilt (dBi) | 17 | 17.3 | 17.7 | 18 |
| Gain over all tilts (dBi) | 16.8±0.6 | 17.1±0.7 | 17.5±0.7 | 17.8±0.7 |
| Horizontal 3dB beamwidth (°) | 68±6 | 66±6 | 60±5 | 60±5 |
| Vertical 3dB beamwidth (°) | 7.1±0.6 | 6.5±0.5 | 5.8±0.6 | 5.0±0.4 |
| Front to back ratio (dB) Total power, ±30° | >25 | >25 | >25 | >25 |
| Cross polar ratio (dB) (at Boresight) | >18 | >18 | >18 | >18 |
| Electrical downtilt (°) | 2~12 | | | |
| Sidelobe suppression (dB) (First sidelobe above main beam) | >18 | >17 | >16 | >15 |
| VSWR | <1.5 | | | |
| Isolation: intra-system (dB) | >25 | | | |
| Isolation: inter-system (dB) | >28 | | | |
| Intermodulation IM3 (2×43dBm carrier) | ≤-153 dBc | | | |
| Impedance (Ω) | 50 | | | |
| Max. power per input (W) @50°C | 250 | | | |
| Lightning protection | DC Ground | | | |

Mechanical specifications

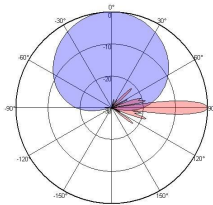
| | |
|--|-----------------|
| Connector | 8×4.3-10-Female |
| Connector position | Bottom |
| Height × width × depth (mm) | 1980×379×177 |
| Packing size (mm) | 2365×485×275 |
| Antenna weight (kg) | 28.8 |
| Installation kit weight (kg) | 5.4 |
| Packing weight (kg) | 39.1 |
| Wind load (N,at 150km/h) Frontal/Lateral/Rearside | 881/278/985 |
| 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

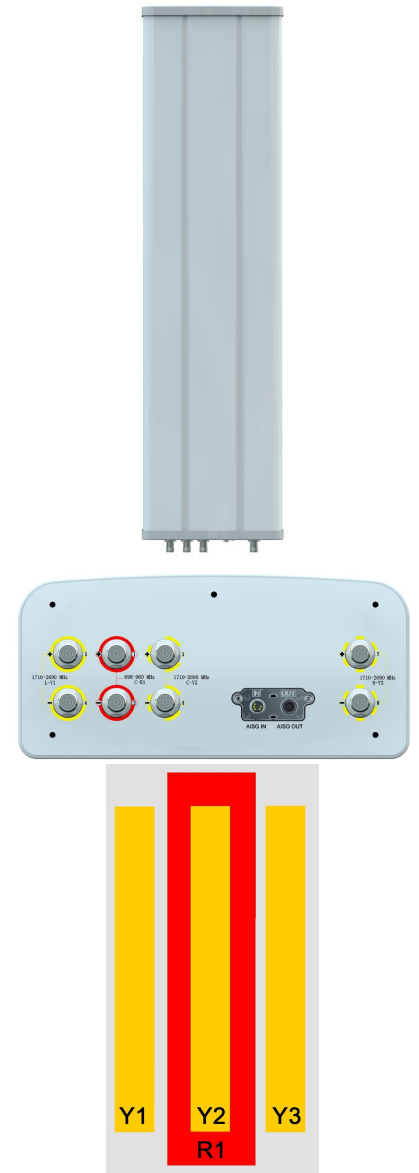
| | |
|------------------------------|---|
| RET model | TRCU-TQ10P2V01 |
| RET type | Integrated (Replaceable) |
| RET protocol | AISG 2.0/3GPP |
| Power supply(V) | 10-30 DC |
| Power consumption(W) | ≤0.6 (Idle, 12V), ≤6 (In motion, 12V) |
| Adjustment time (Full Range) | <4Mins |
| Adjustment cycles | >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


698~960 MHz



1710~2690 MHz



| Ant Array | RET Unique ID |
|-----------|----------------|
| R1 | TY00000.....R1 |
| Y1 | TY00000.....Y1 |
| Y2 | TY00000.....Y2 |
| Y3 | TY00000.....Y3 |