

| | |
|-----------------------|-------------|
| Frequency Range | 1710-2690x2 |
| Polarization | ±45° |
| Half-Power Beam Width | 65° |
| Electrical Downtilt | 2° - 12°x2 |

Type QUA5-2J-RB65



Base Station Antenna

4-ports 1710-2690/1710-2690 MHz 65°, 18/18 dBi, 2°-12° / 2°-12° Tilt Antenna With 2 Integrated RCU.

Electrical Specifications

| Frequency Range(MHz) | | 2X1710-2690 | | |
|--|--------------------|-----------------------------|-----------|-----------|
| | | 1710-1920 | 1920-2300 | 2490-2690 |
| Polarization | | ±45° | | |
| Horizontal 3dB Beamwidth(°) | | 68±4 | 63±4 | 61±4 |
| Vertical 3dB Beamwidth(°) | | 7.5±1 | 6.0±1 | 5.0±0.8 |
| Gain (dBi) | | 17.3±0.5 | 17.7±0.5 | 18.3±0.6 |
| Electrical Downtilt | | 2- 12 | | |
| Upper Sidelobe Suppression(dB) | First | >16 | >16 | >16 |
| Front-to-Back Ratio Total Power, ±30° (dB) | | >25 | >25 | >25 |
| Cross polar ratio | Main direction(dB) | >18 | >18 | >18 |
| | ±60° (dB) | >10 | >10 | >8 |
| Isolation ports (dB) | | ≥28 | | |
| Isolation Frequency (dB) | | ≥28 | | |
| VSWR | | <1.5 | | |
| Intermodulation IM3 | | <-153 dBc (2x43dBm carrier) | | |
| Impedance | | 50 Ω | | |
| Max. Power per Input (at 50°C ambient temperature) | | 250 W | | |
| Lightning Protection | | DC Ground | | |



Mechanical Specifications

| | |
|--|---|
| Radome Material | Fiberglass |
| Connector Type and Location | 4.3-10x4 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female |
| Dimensions,HxWxD(mm) | 1390x295x115 |
| Packing Size(mm) | 1605x385x220 |
| Weight ,w/o Mounting kit(kg) | 14 |
| Weight w/ Downtilt Bracket(kg) | 19 |
| Packing Weight (w/ Downtilt Bracket) (kg) | 22 |
| Max. Wind Velocity(mph) | 150 |
| Mounting hardware | ϕ 50 mm ~ ϕ 115 mm |
| Operational Temperature(°C) | -40 to +65 |
| Operational Humidity(%) | <95 |
| Wind Load at 150km/h (Frontal/lateral/Rearside(N)) | 262/56/317 |

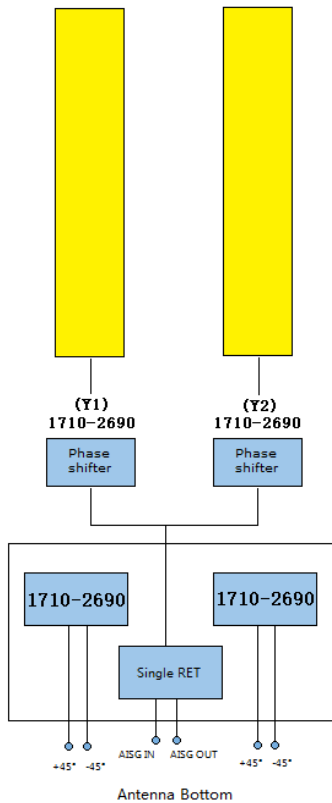
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Integrated RET Properties

| | | |
|-----------------------------|---|--|
| RET Type | 2x Type 1 Single RET | |
| Protocols | Compliant to AISG 3.0/3GPP | |
| Input voltage range | +10~+30VDC(pin 6) | |
| Power consumption | <2W(stand by);<10W(motor activated) | |
| Connectors | AISG | 2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in:male Daisy chain out:female |
| | Antenna | Two motor shaft(Embedded motor) |
| Hardware interface | AISG | RS485A/B(pin5/pin3);Power supply(pin6); DC return(pin7)Acc.to AISG |
| Adjustment time(full range) | 40 sec(typically,depending on antenna) | |
| Adjustment Cycles | ≥10000 | |
| Torque Max | ≥160mN.m | |
| Lightning Protection Rating | IEC 61000-4-5 Current Pulse Profile,8/20 μs 10 Repetitions Min.@ 6kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs,200 Repetitions Min. @ 0.6KA | |

COMPREHENSIVE TILT CONFIGURATION



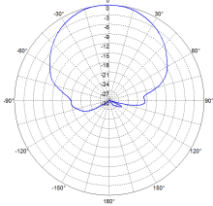
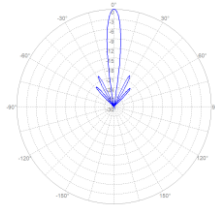
| Frequency Range | Array | RET Unique ID |
|-----------------|-------|---------------------|
| 1710-2690MHz | Y1 | NDPMXXXXXXXX-1727Y1 |
| 1710-2690MHz | Y2 | NDPMXXXXXXXX-1727Y2 |

Note: (1) Physical RET Unit containing (2) Single RET

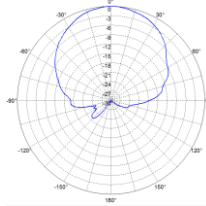
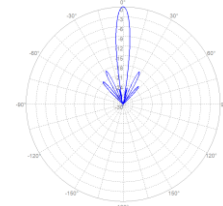
Frequency Range 1710-2690x2

Polarization $\pm 45^\circ$ Half-Power Beam Width 65° Electrical Downtilt $2^\circ - 12^\circ \times 2$ **Type QUA5-2J-RB65**

Radiation Pattern (1710 - 2200 MHz)

Horizontal PatternVertical Pattern

Radiation Patterns (2200 - 2690 MHz)

Horizontal PatternVertical Pattern