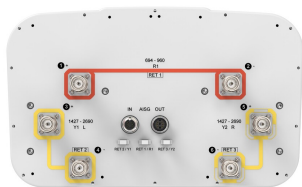


RZZ-65D-R3



6-port sector antenna, 2x 694-960, 4x 1427-2690 MHz 65° HPBW, 3x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

| | |
|----------------------------------|--|
| Antenna Type | Sector |
| Band | Multiband |
| Color | Light Gray (RAL 7035) |
| Grounding Type | RF connector inner conductor and body grounded to reflector and mounting bracket |
| Performance Note | Outdoor usage |
| Radome Material | Fiberglass, UV resistant |
| Reflector Material | Aluminum |
| RF Connector Interface | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 0 |
| RF Connector Quantity, mid band | 4 |
| RF Connector Quantity, low band | 2 |
| RF Connector Quantity, total | 6 |

Remote Electrical Tilt (RET) Information

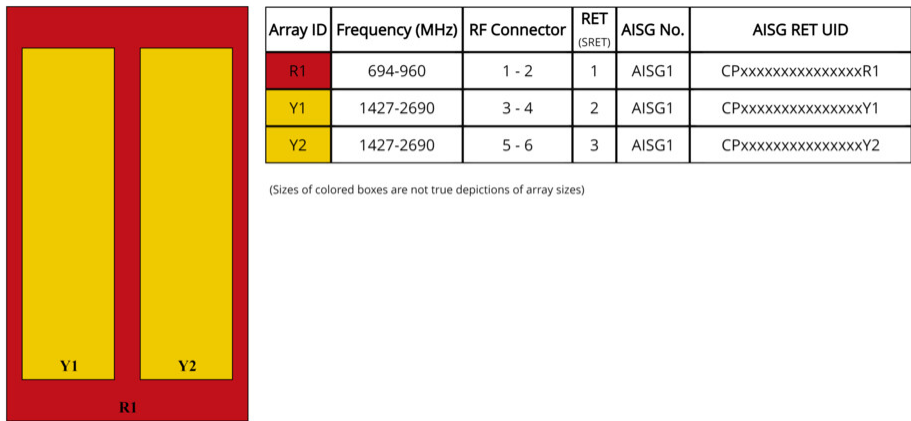
| | |
|--|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 1 female 1 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | Low band (1) Mid band (2) |
| Power Consumption, active state, maximum | 10 W |
| Power Consumption, idle state, maximum | 2 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

RZZ-65D-R3

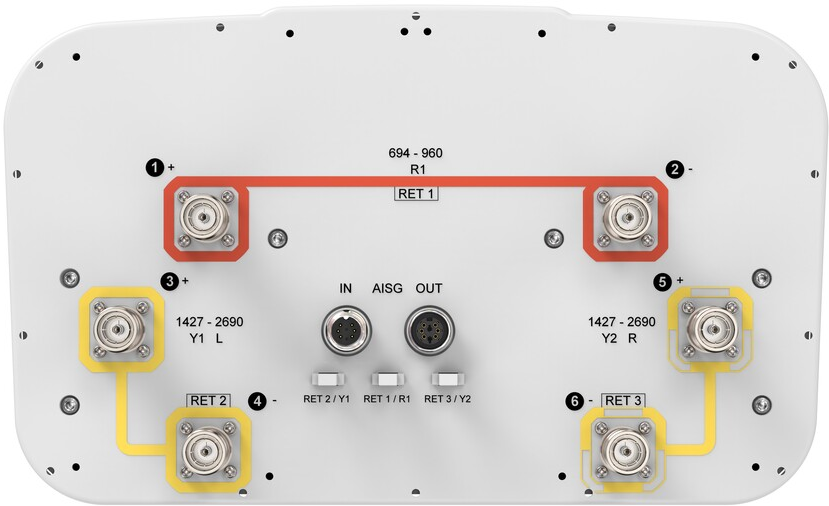
Dimensions

| | |
|--------|----------------------|
| Width | 350 mm 13.78 in |
| Depth | 208 mm 8.189 in |
| Length | 2688 mm 105.827 in |

Array Layout



Port Configuration



RZZ-65D-R3

Electrical Specifications

| | |
|----------------------------|---------------------------------|
| Impedance | 50 ohm |
| Operating Frequency Band | 1427 – 2690 MHz 694 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 800 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 694–790 | 790–890 | 890–960 | 1427–1518 | 1695–1920 | 1920–2180 | 2300–2500 | 2500–2690 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| Gain, dBi | 16.8 | 17.3 | 17.4 | 16.6 | 18 | 18.5 | 19 | 18.8 |
| Beamwidth, Horizontal, degrees | 67 | 65 | 64 | 71 | 61 | 60 | 62 | 58 |
| Beamwidth, Vertical, degrees | 8.4 | 7.5 | 6.8 | 7.1 | 5.9 | 5.3 | 4.6 | 4.3 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–10 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| USLS (First Lobe), dB | 20 | 23 | 18 | 19 | 19 | 15 | 16 | 16 |
| Front-to-Back Ratio at 180°, dB | 29 | 32 | 34 | 34 | 38 | 36 | 34 | 32 |
| CPR at Boresight, dB | 16 | 17 | 18 | 18 | 22 | 19 | 23 | 23 |
| Isolation, Cross Polarization, dB | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Isolation, Inter-band, dB | 30 | 30 | 30 | 26 | 30 | 30 | 30 | 30 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 250 | 250 | 250 | 200 | 200 |

Mechanical Specifications

| | |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 477.0 N @ 150 km/h (107.2 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 409.0 N @ 150 km/h (91.9 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 1,010.0 N @ 150 km/h (227.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 506.0 N @ 150 km/h (113.8 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|---------------|-------------------|
| Width, packed | 460 mm 18.11 in |
| Depth, packed | 350 mm 13.78 in |

RZZ-65D-R3

| | |
|----------------|----------------------|
| Length, packed | 2830 mm 111.417 in |
| Weight, gross | 46.2 kg 101.853 lb |
| Weight, net | 37.9 kg 83.555 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

| | | |
|----------|---|--|
| BSAMNT-3 | – | Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set. |
|----------|---|--|

* Footnotes

| | |
|------------------|---|
| Performance Note | Severe environmental conditions may degrade optimum performance |
|------------------|---|