# RRZZ-65A-R4N39

8-port sector antenna, 4x 694–960 and 4x 1427–2690, 65° HPBW, 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Excellent wind loading characteristics

## 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** | 4 |
| **RF Connector Quantity, total** | 8 |

## Remote Electrical Tilt (RET) Information

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

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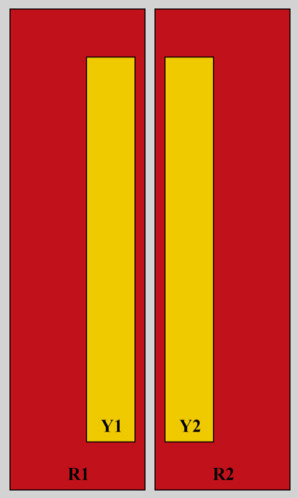
## Dimensions

| | |
|---|---|
| **Width** | 395 mm \| 15.551 in |
| **Depth** | 228 mm \| 8.976 in |
| **Length** | 1499 mm \| 59.016 in |
| **Net Weight, antenna only** | 23.5 kg \| 51.809 lb |

## Array Layout

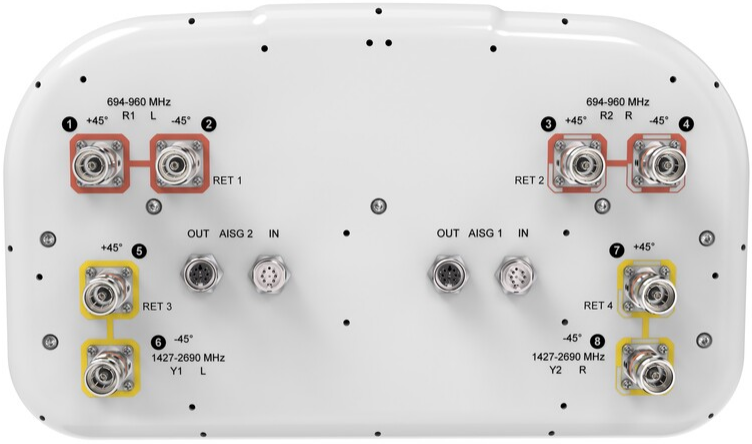



| RF Connector | Array ID | Frequency (MHz) | RET (SRET) | AISG RET UID |
|---|---|---|---|---|
| 1 - 2 | R1 | 694-960 | 1 | CPxxxxxxxxxxxxxxR1 |
| 3 - 4 | R2 | 694-960 | 2 | CPxxxxxxxxxxxxxxR2 |
| 5 - 6 | Y1 | 1427-2690 | 3 | CPxxxxxxxxxxxxxxY1 |
| 7 - 8 | Y2 | 1427-2690 | 4 | CPxxxxxxxxxxxxxxY2 |

(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration

# RRZZ-65A-R4N39




## Electrical Specifications

| | |
|---|---|
| **Impedance** | 50 ohm |
| **Operating Frequency Band** | 1427 – 2690 MHz \| 694 – 960 MHz |
| **Polarization** | ±45° |
| **Total Input Power, maximum** | 900 W @ 50 °C |

## Electrical Specifications

| | R1,R2 | R1,R2 | R1,R2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 | Y1,Y2 |
|---|---|---|---|---|---|---|---|---|
| **Frequency Band, MHz** | **698–806** | **790–896** | **890–960** | **1427–1518** | **1695–1990** | **1920–2300** | **2300–2500** | **2490–2690** |
| **RF Port** | 1,2,3,4 | 1,2,3,4 | 1,2,3,4 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 | 5,6,7,8 |
| **Gain at Mid Tilt, dBi** | 12.3 | 13 | 13.3 | 15.3 | 16.7 | 17.5 | 18.3 | 18.3 |
| **Beamwidth, Horizontal, degrees** | 60 | 54 | 49 | 70 | 62 | 67 | 63 | 53 |
| **Beamwidth, Vertical, degrees** | 17.3 | 15.6 | 14.5 | 7.7 | 6.3 | 5.7 | 5 | 4.7 |
| **Beam Tilt, degrees** | 3–16 | 3–16 | 3–16 | 2–12 | 2–12 | 2–12 | 2–12 | 2–12 |
| **USLS (First Lobe), dB** | 15 | 15 | 15 | 16 | 14 | 14 | 17 | 16 |
| **Front-to-Back Ratio at 180°, dB** | 28 | 26 | 25 | 30 | 33 | 31 | 30 | 30 |
| **Front-to-Back Total Power at 180° ± 30°, dB** | 18 | 19 | 19 | 23 | 25 | 26 | 24 | 25 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Isolation, Cross Polarization, dB** | 25 | 25 | 25 | 26 | 26 | 26 | 26 | 26 |
| **Isolation, Inter-band, dB** | 25 | 25 | 25 | 27 | 27 | 27 | 27 | 27 |
| **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 | 300 | 250 | 250 | 250 | 200 |

## Mechanical Specifications

| | |
|---|---|
| **Wind Loading @ Velocity, frontal** | 225.0 N @ 150 km/h (50.6 lbf @ 150 km/h) |
| **Wind Loading @ Velocity, lateral** | 242.0 N @ 150 km/h (54.4 lbf @ 150 km/h) |
| **Wind Loading @ Velocity, maximum** | 496.0 N @ 150 km/h (111.5 lbf @ 150 km/h) |
| **Wind Loading @ Velocity, rear** | 256.0 N @ 150 km/h (57.6 lbf @ 150 km/h) |
| **Wind Speed, maximum** | 241 km/h (150 mph) |

## Packaging and Weights

| | |
|---|---|
| **Width, packed** | 505 mm \| 19.882 in |
| **Depth, packed** | 386 mm \| 15.197 in |
| **Length, packed** | 1643 mm \| 64.685 in |
| **Weight, gross** | 35.7 kg \| 78.705 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 |