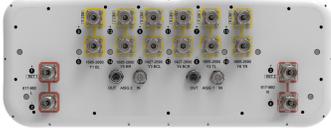


KKZZV4-65B-R8



16-port sector antenna, 4x 617-960 (R1,R2), 4x 1427-2690 (Y3,Y4) & 8x 1695-2690 (Y1,Y2,Y5,Y6) MHz, 65° HPBW, 8x RET. All Internal RET actuators are connected in “Cascaded SRET” configuration

- Covers Band 71 with up to 4x MIMO support
- Utilize new aerodynamic endcap for wind load optimization

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 | 12 |
| RF Connector Quantity, mid band | 0 |
| RF Connector Quantity, low band | 4 |
| RF Connector Quantity, total | 16 |

Remote Electrical Tilt (RET) Information

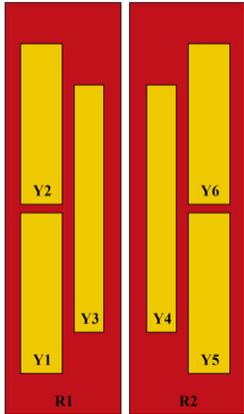
| | |
|---|-----------------------------------|
| RET Hardware | CommRET v2 |
| RET Interface | 8-pin DIN Female 8-pin DIN Male |
| RET Interface, quantity | 2 female 2 male |
| Input Voltage | 10–30 Vdc |
| Internal RET | High band (6) Low band (2) |
| Power Consumption, active state, maximum | 8 W |
| Power Consumption, idle state, maximum | 1 W |
| Protocol | 3GPP/AISG 2.0 (Single RET) |

KKZZV4-65B-R8

Dimensions

| | |
|---------------|---------------------|
| Width | 498 mm 19.606 in |
| Depth | 197 mm 7.756 in |
| Length | 2100 mm 82.677 in |

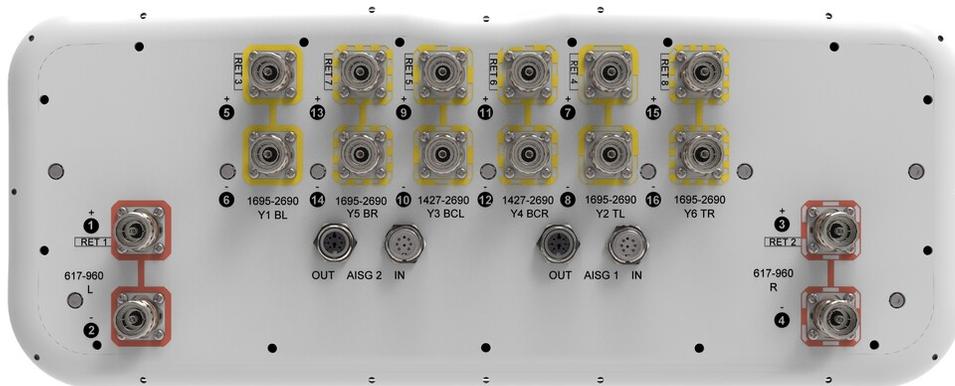
Array Layout



| Array ID | Frequency (MHz) | RF Connector | RET (SRET) | AISG No. | AISG RET UID |
|----------|-----------------|--------------|------------|----------|----------------------|
| R1 | 617-960 | 1 - 2 | 1 | AISG1 | CPxxxxxxxxxxxxxxxxR1 |
| R2 | 617-960 | 3 - 4 | 2 | AISG1 | CPxxxxxxxxxxxxxxxxR2 |
| Y1 | 1695-2690 | 5 - 6 | 3 | AISG1 | CPxxxxxxxxxxxxxxxxY1 |
| Y2 | 1695-2690 | 7 - 8 | 4 | AISG1 | CPxxxxxxxxxxxxxxxxY2 |
| Y3 | 1427-2690 | 9 - 10 | 5 | AISG1 | CPxxxxxxxxxxxxxxxxY3 |
| Y4 | 1427-2690 | 11 - 12 | 6 | AISG1 | CPxxxxxxxxxxxxxxxxY4 |
| Y5 | 1695-2690 | 13 - 14 | 7 | AISG1 | CPxxxxxxxxxxxxxxxxY5 |
| Y6 | 1695-2690 | 15 - 16 | 8 | AISG1 | CPxxxxxxxxxxxxxxxxY6 |

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

Port Configuration



Electrical Specifications

| | |
|-----------------------------------|---|
| Impedance | 50 ohm |
| Operating Frequency Band | 1427 – 2690 MHz 1695 – 2690 MHz 617 – 960 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 1,000 W @ 50 °C |

KKZZV4-65B-R8

Electrical Specifications

| Frequency Band, MHz | 617-698 | 698-890 | 890-960 | 1427-1518 | 1695-1920 | 1920-2200 | 2300-2690 |
|--|----------|----------|----------|-----------|-----------|-----------|-----------|
| Gain, dBi | 13.7 | 14.5 | 14.5 | 14.7 | 16 | 16.9 | 16.8 |
| Beamwidth, Horizontal, degrees | 69 | 60 | 60 | 64 | 63 | 56 | 58 |
| Beamwidth, Vertical, degrees | 13.3 | 11.8 | 10.5 | 9.7 | 8.5 | 7.6 | 6.3 |
| Beam Tilt, degrees | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 | 2-12 |
| USLS (First Lobe), dB | 20 | 19 | 16 | 15 | 15 | 16 | 17 |
| Front-to-Back Ratio at 180°, dB | 34 | 28 | 26 | 28 | 32 | 31 | 29 |
| Isolation, Cross Polarization, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Isolation, Inter-band, dB | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 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 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 250 | 250 | 250 | 200 |

Mechanical Specifications

| | |
|----------------------------------|---|
| Wind Loading @ Velocity, frontal | 728.0 N @ 150 km/h (163.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 223.0 N @ 150 km/h (50.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, maximum | 873.0 N @ 150 km/h (196.3 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 501.0 N @ 150 km/h (112.6 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

| | |
|----------------|---------------------|
| Width, packed | 608 mm 23.937 in |
| Depth, packed | 352 mm 13.858 in |
| Length, packed | 2242 mm 88.268 in |
| Weight, gross | 56 kg 123.459 lb |
| Weight, net | 43 kg 94.799 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 |

KKZZV4-65B-R8

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant



Included Products

BSAMNT-4 – 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