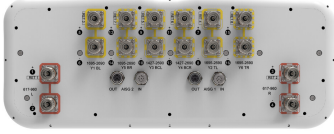


# KKZZV4-65B-R8



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

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	12
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	16

## Remote Electrical Tilt (RET) Information

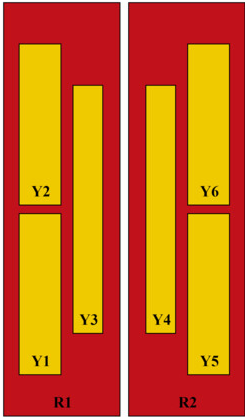
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (6)   Low band (2)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state,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

## Dimensions

# KKZZV4-65B-R8

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2100 mm   82.677 in

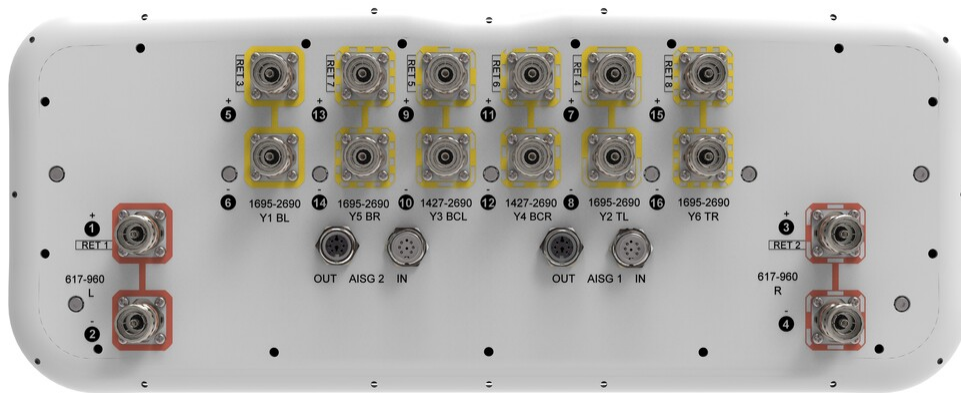
## Array Layout



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

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

## Electrical Specifications

# KKZZV4-65B-R8

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

## Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-890	890-960	1427-1518	1695-1920	1920-2200	2300-2690
Gain by all Beam Tilts, average, dBi	13.4	14	14.1	14.2	15.3	16	16.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.7	±0.6	±1.4	±1.3	±1
Beamwidth, Horizontal Tolerance, degrees	±7	±6	±10.7	±7.3	±16.2	±16.7	±7.2
Beamwidth, Vertical Tolerance, degrees	±0.8	±1.2	±0.5	±0.5	±1	±1	±0.8
USLS, beampeak to 20° above beampeak, dB	21	19	16	14	13	13	13
Front-to-Back Total Power at 180° ± 30°, dB	22	22	19	24	25	25	23
CPR at Boresight, dB	25	26	20	18	19	20	19
CPR at Sector, dB	12	8	5	3	5	5	3

## 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)

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**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	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## 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