

# KKZZV4-65D-R8



16-port sector antenna, 4x 617–960(R1, R2), 4x 1427–2690(Y3, Y4) and 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, mid band</b>	0
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	16

## Remote Electrical Tilt (RET) Information

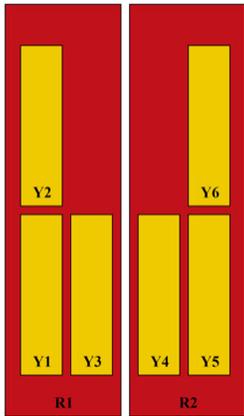
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (6)   Low band (2)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state,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

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## Dimensions

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2688 mm   105.827 in
<b>Net Weight, without mounting kit</b>	55.7 kg   122.797 lb

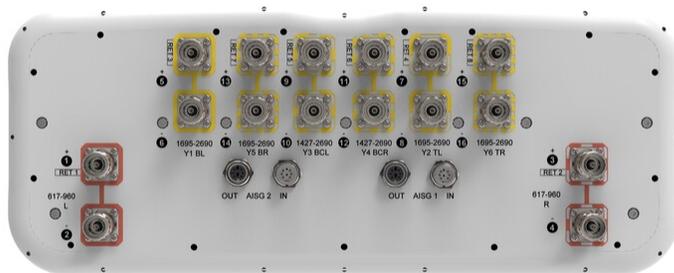
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	617-960	1 - 2	1	CPXXXXXXXXXXXXR1
R2	617-960	3 - 4	2	CPXXXXXXXXXXXXR2
Y1	1695-2690	5 - 6	3	CPXXXXXXXXXXXXY1
Y2	1695-2690	7 - 8	4	CPXXXXXXXXXXXXY2
Y3	1427-2690	9 - 10	5	CPXXXXXXXXXXXXY3
Y4	1427-2690	11 - 12	6	CPXXXXXXXXXXXXY4
Y5	1695-2690	13 - 14	7	CPXXXXXXXXXXXXY5
Y6	1695-2690	15 - 16	8	CPXXXXXXXXXXXXY6

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
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<b>Operating Frequency Band</b>	1427 – 1518 MHz   1695 – 2690 MHz   617 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	617–698	698–890	890–960	1427–1518	1695–1920	1920–2200	2300–2690
<b>Gain, dBi</b>	15.4	16	16.4	15.5	17.3	18.2	18.2
<b>Beamwidth, Horizontal, degrees</b>	70	61	60	69	61	54	58
<b>Beamwidth, Vertical, degrees</b>	9.2	8	7	6.8	6.6	5.8	4.9
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	17	16	15	16	17	18
<b>Front-to-Back Ratio at 180°, dB</b>	33	32	28	27	33	31	32
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	250	250	250	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	944.0 N @ 150 km/h (212.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	292.0 N @ 150 km/h (65.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	1,130.0 N @ 150 km/h (254.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	2935 mm   115.551 in
<b>Weight, gross</b>	76.7 kg   169.094 lb

## Regulatory Compliance/Certifications

Agency	Classification
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CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
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. |
| BSAMNT-M4 | - | Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.                            |

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance