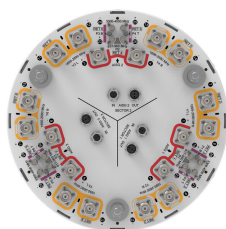


# 3X-KVVSS-65A-R9



30-ports tri-sector antenna, 6x 617-960, 12x 1695-2690 and 12x 3300-4000 MHz, 65° HPBW, 9x RETs.

- Small size tri-sector macro cell canister antenna
- Ideal for deploying low band, mid band and CBRS/C-Band in flagpoles and concealment solutions
- Pole mounting kit not included. Separate pole mounting kit TS-MNT-TOP-370 available for pole diameter from 150mm (5.9 inch) to 273 mm (10.7 inch). Please check Optional Mounting Kits section for more details

## General Specifications

Antenna Type	DualPol® tri-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	ASA, UV stabilized
RF Connector Interface	4.3-10 Female   M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	12
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	30

## Remote Electrical Tilt (RET) Information

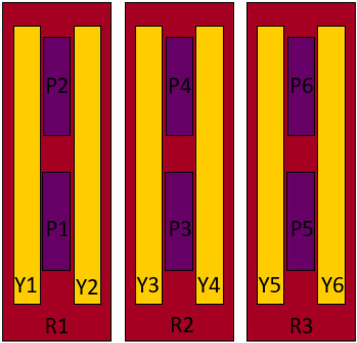
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	3 female   3 male
Input Voltage	10–30 Vdc
Internal RET	High band (3)   Low band (3)   Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG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

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## Dimensions

Length	1446 mm   56.929 in
Net Weight, antenna only	40.2 kg   88.626 lb
Outer Diameter	370 mm   14.567 in

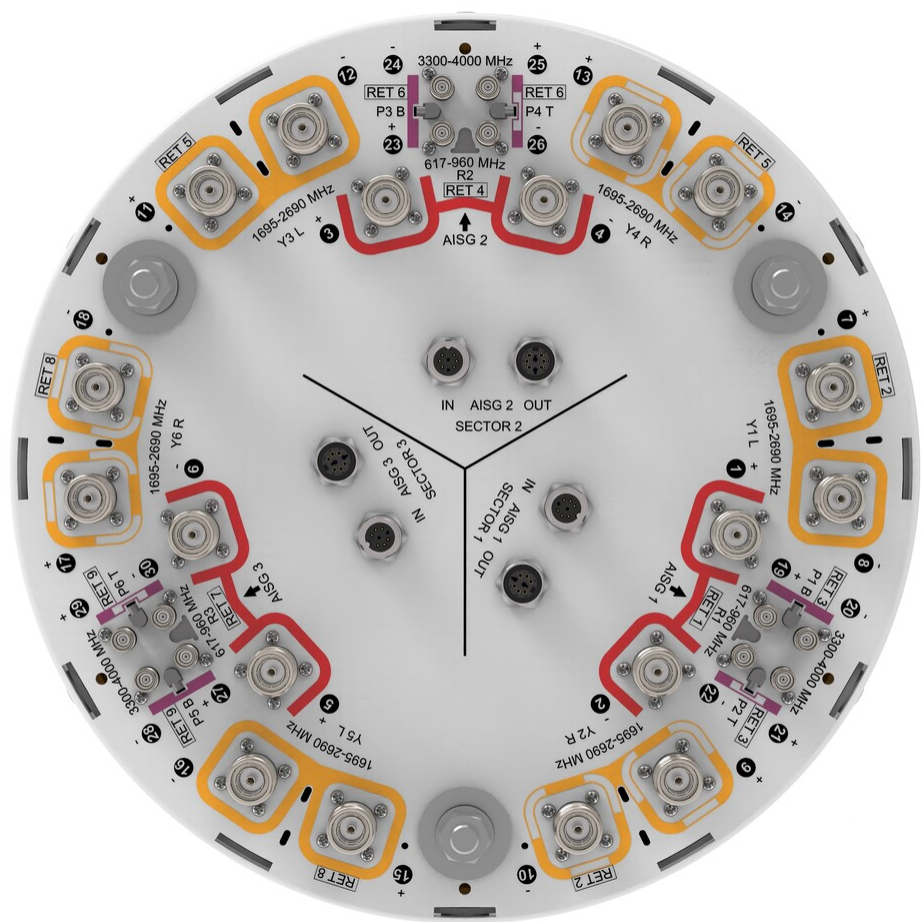
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxR1
Y1	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxY1
Y2	1695-2690	9 - 10			
P1	3300-4000	19 - 20	3	AISG1	CPxxxxxxxxxxxxP1
P2	3300-4000	21 - 22			
R2	617-960	3 - 4	4	AISG2	CPxxxxxxxxxxxxR2
Y3	1695-2690	11 - 12	5	AISG2	CPxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14			
P3	3300-4000	23 - 24	6	AISG2	CPxxxxxxxxxxxxP3
P4	3300-4000	25 - 26			
R3	617-960	5 - 6	7	AISG3	CPxxxxxxxxxxxxR3
Y5	1695-2690	15 - 16	8	AISG3	CPxxxxxxxxxxxxY5
Y6	1695-2690	17 - 18			
P5	3300-4000	27 - 28	9	AISG3	CPxxxxxxxxxxxxP5
P6	3300-4000	29 - 30			

## Port Configuration

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## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz   3300 – 4000 MHz   617 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,500 W

## Electrical Specifications

	R1-R3	R1-R3	R1-R3	R1-R3	Y1-Y6	Y1-Y6	Y1-Y6	P1-P6	P1-P6	P1-P6
Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-1920	1920-2200	2300-2690	3300-3550	3550-3700	3700-4000
RF Port	1-6	1-6	1-6	1-6	7-18	7-18	7-18	19-30	19-30	19-30
Gain at Mid Tilt, dBi	12.6	13.1	13.4	13.2	16.6	17.2	17	15.5	15.3	14.8
Beamwidth, Horizontal, degrees	76	75	74	71	64	61	70	60	60	61

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Beamwidth, Vertical, degrees	18.7	16.9	15.1	14.1	7	6.2	5.2	7.4	7	6.7
Beam Tilt, degrees	4-14	4-14	4-14	4-14	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	17	17	15	12	12	16	15	15
Front-to-Back Ratio at 180°, dB	27	29	29	27	30	30	30	30	30	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	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	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	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	250	250	250	250	200	200	200	100	100	100

## Mechanical Specifications

Wind Loading @ Velocity, frontal	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	478 mm   18.819 in
Depth, packed	464 mm   18.268 in
Length, packed	1784 mm   70.236 in
Weight, gross	46.8 kg   103.176 lb

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



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\* Footnotes

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

