

3X-KVV-65A-R6



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

- Small size tri-sector macro cell canister antenna
- Ideal for deploying low band and mid 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
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	18

Remote Electrical Tilt (RET) Information

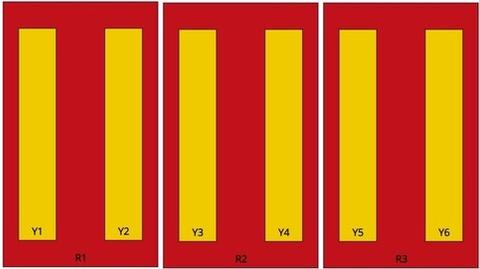
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	3 female 3 male
Input Voltage	10–30 Vdc
Internal RET	Low band (3) Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

Dimensions

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Length	1446 mm 56.929 in
Net Weight, antenna only	39.2 kg 86.421 lb
Outer Diameter	370 mm 14.567 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET <small>(SRET)</small>	AISG No.	RET UID
R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
Y1	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2690	9 - 10			
R2	617-960	3 - 4	3	AISG2	CPxxxxxxxxxxxxxR2
Y3	1695-2690	11 - 12	4	AISG2	CPxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14			
R3	617-960	5 - 6	5	AISG3	CPxxxxxxxxxxxxxR3
Y5	1695-2690	15 - 16	6	AISG3	CPxxxxxxxxxxxxxY5
Y6	1695-2690	17 - 18			

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 617 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,300 W

Electrical Specifications

	R1-R3	R1-R3	R1-R3	R1-R3	Y1-Y6	Y1-Y6	Y1-Y6
Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-1920	1920-2200	2300-2690
RF Port	1-6	1-6	1-6	1-6	7-18	7-18	7-18
Gain at Mid Tilt, dBi	12.6	13.1	13.4	13.2	16.6	17.2	17
Beamwidth, Horizontal,	76	75	74	71	64	61	70

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degrees

Beamwidth, Vertical, degrees	18.7	16.9	15.1	14.1	7	6.2	5.2
Beam Tilt, degrees	4-14	4-14	4-14	4-14	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	17	17	15	12	12
Front-to-Back Ratio at 180°, dB	27	29	29	27	30	30	30
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	250	250	250	250	200	200	200

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	45.8 kg 100.972 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

