

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, 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

Length	1446 mm 56.929 in
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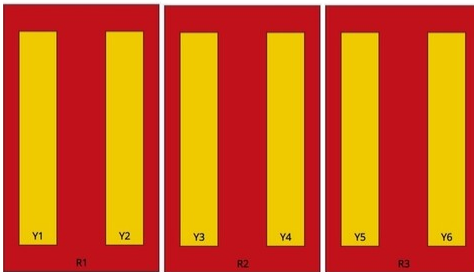
Net Weight, antenna only

39.2 kg | 86.421 lb

Outer Diameter

370 mm | 14.567 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	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

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-1920	1920-2200	2300-2690
Gain by all Beam Tilts, average, dBi	12.6	13.1	13.3	13.1	16.4	16.9	16.6
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.7	±0.7	±0.5	±0.7
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±2	±3	±4	±8	±6
Beamwidth, Vertical Tolerance, degrees	±1.2	±1.2	±0.9	±0.7	±0.5	±0.6	±0.5
USLS, beampeak to 20° above beampeak, dB					12	12	11
Front-to-Back Total Power at 180° ± 30°, dB	21	22	22	21	24	26	24
CPR at Boresight, dB	16	20	19	22	18	21	18
CPR at Sector, dB	11	8	8	4	3	3	4

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

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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