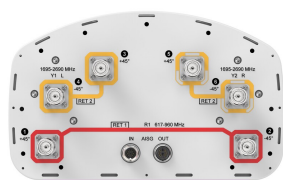


# KVV-65A-R2-V1



6-port sector antenna, 2x 617-960, 4x 1695-2690 MHz and 65° HPBW, 2XRET

- Small size ideal for deploying low band and mid band in concealments and flagpole

## General Specifications

Antenna Type	Sector
Band	Multiband
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	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

## Remote Electrical Tilt (RET) Information

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

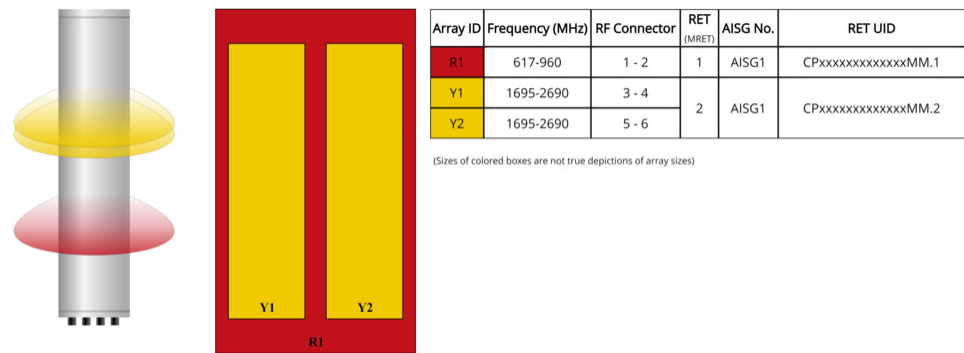
## Dimensions

Width	301 mm   11.85 in
Depth	181 mm   7.126 in
Length	1219 mm   47.992 in

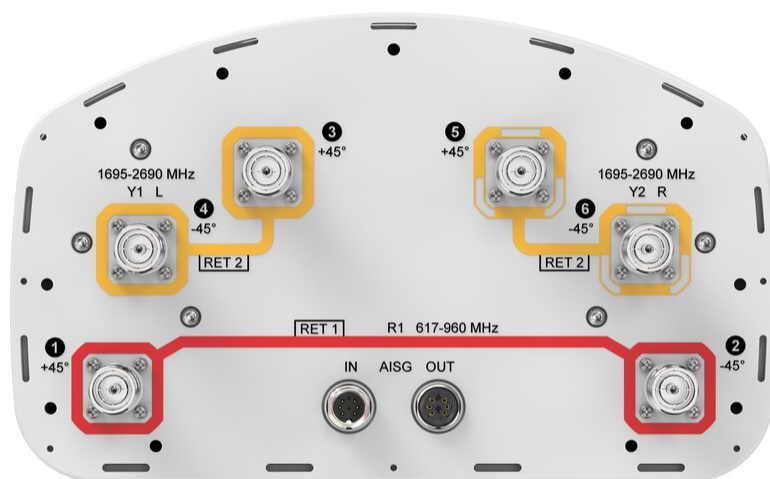
# KVV-65A-R2-V1

Net Weight, antenna only 15.1 kg | 33.29 lb

## Array Layout



## Port Configuration



## Electrical Specifications

# KVV-65A-R2-V1

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

## Electrical Specifications

	R1	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617–698	698–806	806–894	894–960	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
RF Port	1,2	1,2	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain, dBi	13.1	13.3	13.4	13.5	16.7	17	17.5	18	18.4
Beamwidth, Horizontal, degrees	76	76	72	71	64	62	57	60	55
Beamwidth, Vertical, degrees	21.2	19.2	16.9	15.2	7.6	7.2	6.8	6.1	5.8
Beam Tilt, degrees	4–18	4–18	4–18	4–18	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	19	16	15	15	16	17	18	18
Front-to-Back Ratio at 180°, dB	28	29	27	26	33	35	33	32	34
Front-to-Back Total Power at 180° ± 30°, dB	19	21	22	20	25	27	27	28	28
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	250	200	200	200	200	200

## Mechanical Specifications

Wind Loading @ Velocity, frontal	173.0 N @ 150 km/h (38.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	142.0 N @ 150 km/h (31.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	334.0 N @ 150 km/h (75.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	176.0 N @ 150 km/h (39.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	565 mm   22.244 in
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# KVV-65A-R2-V1

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Depth, packed	342 mm   13.465 in
Length, packed	1362 mm   53.622 in
Weight, gross	20.6 kg   45.415 lb

## Regulatory Compliance/Certifications

Agency	Classification
UK-ROHS	Compliant

## \* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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