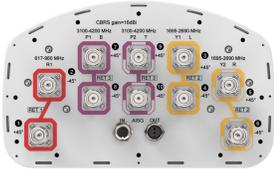


# KVVSS-65A-R3



10-port sector antenna, 2x 617-960, 4x 1695-2690 and 4x 3100-4200 MHz, 65° HPBW, 3x RETs. Both high bands share the same electrical tilt.

- Small size ideal for deploying low band, mid band and 3.5 GHz in concealments and flagpoles

## 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>	4
<b>RF Connector Quantity, mid band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	10

## Remote Electrical Tilt (RET) Information

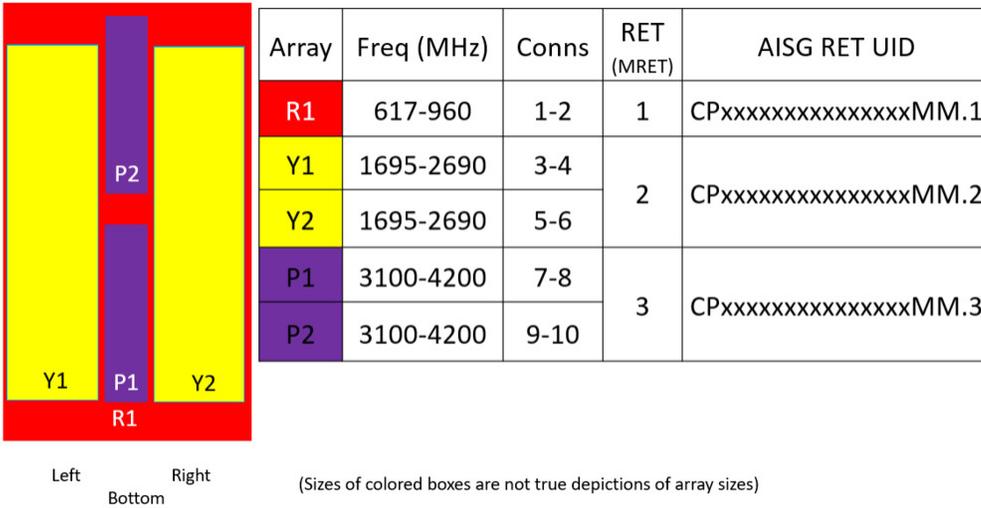
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (1)   Low band (1)   Mid band (1)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption,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

## Dimensions

# KVVSS-65A-R3

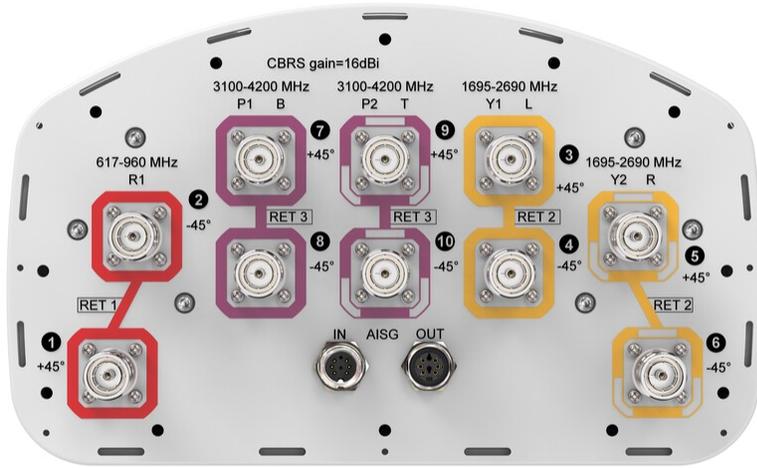
<b>Width</b>	301 mm   11.85 in
<b>Depth</b>	181 mm   7.126 in
<b>Length</b>	1219 mm   47.992 in
<b>Net Weight, antenna only</b>	16.1 kg   35.494 lb

## Array Layout



## Port Configuration

# KVVSS-65A-R3



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   3100 – 4200 MHz   617 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W @ 50 °C

## Electrical Specifications

	R1	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
<b>Frequency Band, MHz</b>	<b>617–698</b>	<b>698–806</b>	<b>806–894</b>	<b>894–960</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>RF Port</b>	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
<b>Gain, dBi</b>	12.9	13	13.2	13	16.4	16.9	17.1	16.5	17.3
<b>Beamwidth, Horizontal, degrees</b>	75	75	72	72	66	60	61	72	61
<b>Beamwidth, Vertical, degrees</b>	21.2	18.4	16.3	15.1	7.5	7	6.6	6	5.7
<b>Beam Tilt, degrees</b>	4–18	4–18	4–18	4–18	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	18	19	17	16	15	16	17	17	17
<b>Front-to-Back Ratio at</b>	27	34	32	31	33	35	32	33	33

# KVVSS-65A-R3

## 180°, dB

<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	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	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	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	250	250	200	200	200	200	200

## Electrical Specifications

	<b>P1,P2</b>	<b>P1,P2</b>	<b>P1,P2</b>
<b>Frequency Band, MHz</b>	<b>3100–3400</b>	<b>3400–3800</b>	<b>3700–4200</b>
<b>RF Port</b>	7,8,9,10	7,8,9,10	7,8,9,10
<b>Gain, dBi</b>	16	15.5	15.6
<b>Beamwidth, Horizontal, degrees</b>	49	60	59
<b>Beamwidth, Vertical, degrees</b>	8.6	7.8	7.1
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	18	16	15
<b>Front-to-Back Ratio at 180°, dB</b>	31	30	29
<b>Isolation, Cross Polarization, dB</b>	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-145	-145	-145
<b>Input Power per Port at 50°C, maximum, watts</b>	100	100	100

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	173.0 N @ 150 km/h (38.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	142.0 N @ 150 km/h (31.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	334.0 N @ 150 km/h (75.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	176.0 N @ 150 km/h (39.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241.4 km/h (150 mph)

# KVVSS-65A-R3

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## Packaging and Weights

<b>Width, packed</b>	380 mm   14.961 in
<b>Depth, packed</b>	295 mm   11.614 in
<b>Length, packed</b>	1344 mm   52.913 in
<b>Weight, gross</b>	26.4 kg   58.202 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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-3	–	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.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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