

KKVVSS-65C-T-R3B



4-port sector antenna, 4x 617–960, 4x 1695–2690 and 4x 3300–4000 MHz, 65° HPBW, 3x RETs and 1x SBT

- Ideal for deploying low band, mid-band and C-band/DoD/CBRS in flagpoles and concealment solutions
- Internal multiplexing reduces cable count from 12 cables to 4 cables per antenna, saving space on flag poles and reducing wind load on other applications
- Antenna design optimized to offer high gain performances
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Perfect antenna to add 3.5GHz (C-band, DoD, CBRS) to concealment macro sites
- One RET for low band ,one RET for mid band and one RET for high band to ensure same tilt level for arrays using the same band optimizing 4T4R communications
- One internal SBT for low band allow RET control from the radio over the RF jumper cable

General Specifications

Antenna Type	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	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, total	4

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 Bias Tee	Port 1
Internal RET	High band (1) Low band (1) Mid band (1)


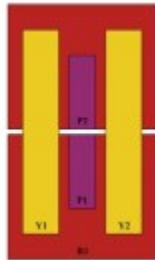
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Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	2588 mm 101.89 in
Net Weight, without mounting kit	30.5 kg 67.241 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	ASG No.	SRT RF PORT	SRT No.	RET UID
R1	617-960	1-2	1	AISG1	1	1	CXXXXXXXXXXXXR1
R2	617-960	3-4					
Y1	1695-2690	1-2	2	AISG1			CXXXXXXXXXXXXY1
Y2	1695-2690	3-4					
P1	3300-4000	1-2	3	AISG1			CXXXXXXXXXXXXP1
P2	3300-4000	3-4					

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4000 MHz 617 – 960 MHz
Polarization	±45°

Electrical Specifications

	R1,R2	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690	3300-3550	3550-3800	3700-4000
RF Port	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4
Gain, dBi	12.9	13.3	13.5	13.4	16.8	17.3	17.4	17.2	17.6	16.7	16.6	16.6
Beamwidth, Horizontal, degrees	75	75	71	68	68	62	64	78	65	60	65	66
Beamwidth, Vertical, degrees	21.5	19.4	17.1	15.7	7	6.6	6.2	5.5	5.1	6.6	6.2	6.1
Beam Tilt, degrees	2-16	2-16	2-16	2-16	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	15	15	15	15	15	15	16	16	15	16	16	15
Front-to-Back Ratio at 180°, dB	30	33	31	30	31	33	31	30	30	30	31	30
CPR at Boresight, dB	20	22	21	20	17	17	20	20	21	15	12	12
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	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	-145	-145	-145
Input Power per Port at	250	250	250	250	250	250	250	250	250	250	250	250

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50°C,
maximum,
watts

Mechanical Specifications

Wind Loading @ Velocity, frontal	422.0 N @ 150 km/h (94.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	356.0 N @ 150 km/h (80.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	813.0 N @ 150 km/h (182.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	428.0 N @ 150 km/h (96.2 lbf @ 150 km/h)
Wind Speed, maximum	241.4 km/h (150 mph)

Packaging and Weights

Width, packed	380 mm 14.961 in
Depth, packed	295 mm 11.614 in
Length, packed	2721 mm 107.126 in
Weight, gross	43.5 kg 95.901 lb

Regulatory Compliance/Certifications

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

Included Products

BSAMNT-4	-	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

Performance Note	Severe environmental conditions may degrade optimum performance
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