KKVV-65B-R2VB

8-port sector antenna, 4x 612–960 and 4x 1695–2690 MHz, 65°HPBW, 2x RET

- Covers Band 71 with up to 4x MIMO support
- Antenna with integrated pluggable RET
- A common electrical tilt optimized for RF Ports Y1/Y2 for MIMO 4X4 purposes
- A common electrical tilt optimized for RF Ports R1/R2 for 4x MIMO purposes

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, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

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 (Single RET)

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Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	1997 mm | 78.622 in
Net Weight, without mounting kit	27.4 kg | 60.407 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	612-960	1 - 2	65°	1	AISG1	ANxxxxxxxxxxxxxxR1
R2	612-960	3 - 4	65°			
Y1	1695-2690	5 - 6	65°	2	AISG1	ANxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°			

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

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 612 – 960 MHz

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Polarization	±45°
Total Input Power, maximum	800 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**612–698**	**698–803**	**790–894**	**890–960**	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
RF Port	1-4	1-4	1-4	1-4	5-8	5-8	5-8	5-8	5-8
Gain, dBi	14.8	15.6	15.8	15.8	18	18.1	18.3	18.5	18.8
Beamwidth, Horizontal, degrees	65	60	58	58	65	68	67	67	62
Beamwidth, Vertical, degrees	13	11.7	10.7	10.1	5.8	5.4	5.1	4.5	4.2
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	18	18	17	18	17	17	20	17
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	23	26	26	24	27	26	25	29	27
CPR at Boresight, dB	21	25	23	20	22	26	25	19	21
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, maximum, watts	250	250	250	250	200	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	687.0 N @ 150 km/h (154.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	209.0 N @ 150 km/h (47.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	473.0 N @ 150 km/h (106.3 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights

Width, packed	573 mm | 22.559 in
Depth, packed	272 mm | 10.709 in
Length, packed	2237 mm | 88.071 in
Weight, gross	39.3 kg | 86.642 lb

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Regulatory Compliance/Certifications

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

Included Products

BSAMNT-B95-04A	–	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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance