VV-65B-R1

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET . The two high band arrays utilize a common tilt.

- The RET interface comprises one pair of AISG input/output ports
- Meets -153dBc 3rd order PIM, using 2x40W carriers

General Specifications

Antenna Type	Sector
Band	Single band
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	PVC
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
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 RET	High band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	10 W
Protocol	3GPP/AISG 2.0

Dimensions

Width	305 mm | 12.008 in
Depth	118 mm | 4.646 in

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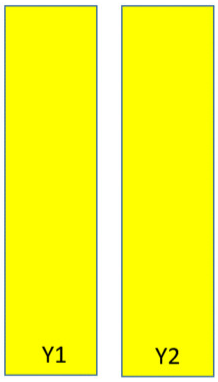
Length	1787 mm | 70.354 in
Net Weight, antenna only	12.7 kg | 27.999 lb

Array Layout



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

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	1695-2690	1-2	AISG1	CPxxxxxxxxxxxxxxxY1
Y2	1695-2690	3-4		

Port Configuration

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz
Polarization	±45°
Total Input Power, maximum	400 W @ 50 °C

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Electrical Specifications

	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	**1695–1880**	**1850–1990**	**1920–2200**	**2300–2500**	**2500–2690**
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4
Gain, dBi	18.3	18.7	19	19.2	19.3
Beamwidth, Horizontal, degrees	66	65	65	61	58
Beamwidth, Vertical, degrees	5.6	5.2	4.9	4.3	4.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	21	21	18	17	16
Front-to-Back Ratio at 180°, dB	32	34	36	35	36
Isolation, Cross Polarization, dB	30	30	30	30	30
Isolation, Inter-band, dB	30	30	30	30	30
VSWR | Return loss, dB	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 40 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	663.0 N @ 150 km/h (149.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	404 mm | 15.906 in
Depth, packed	278 mm | 10.945 in
Length, packed	1923 mm | 75.709 in
Weight, gross	23.3 kg | 51.368 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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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.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance