

VV-65B-R1B



4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and internal Bias-T on first highband port. The two highband arrays utilize a common tilt.

- The RET interface comprises one pair of AISG input/output ports

OBSOLETE

This product was discontinued on: **March 31, 2021**

Replaced By:

VV-65B-R1B-V2

4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 1x RET and internal Bias-T on first highband port. The two highband arrays utilize a common tilt.

General Specifications

Antenna Type	Sector
Band	Single band
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	PVC
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

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)
Power Consumption, idle state, maximum	2 W

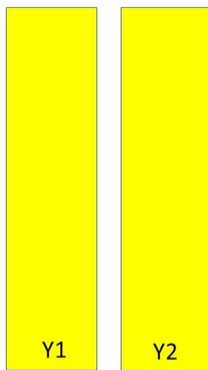
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Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	305 mm 12.008 in
Depth	118 mm 4.646 in
Length	1786 mm 70.315 in
Net Weight, without mounting kit	13.4 kg 29.542 lb

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
Y1	1695-2690	1-2	1	ANxxxxxxxxxxxxxxxx1
Y2	1695-2690	3-4		

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

Port Configuration

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Electrical Specifications

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

Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain, dBi	18.3	18.9	19.4	19.1	19.5
Beamwidth, Horizontal, degrees	66	66	61	61	57
Beamwidth, Vertical, degrees	5.6	5.2	4.3	4.3	4.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	19	19	17	17	18
Front-to-Back Ratio at 180°, dB	32	34	35	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

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	300

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1880	1850–1990	1920–2200	2300–2500	2500–2690
Gain by all Beam Tilts, average, dBi	17.9	18.5	19.1	19.1	19.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.4	±0.5
Gain by Beam Tilt, average, dBi	2° 17.8 7° 18.0 12° 17.8	2° 18.3 7° 18.6 12° 18.3	2° 19.0 7° 19.3 12° 18.6	2° 19.0 7° 19.3 12° 18.6	2° 19.2 7° 19.5 12° 18.7
Beamwidth, Horizontal Tolerance, degrees	±2.9	±1.7	±2.6	±2.6	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.2	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	15	15	13
Front-to-Back Total Power at 180° ± 30°, dB	25	25	27	27	26
CPR at Boresight, dB	16	18	21	21	19
CPR at Sector, dB	10	10	8	8	9

Mechanical Specifications

Wind Loading @ Velocity, frontal	696.0 N @ 150 km/h (156.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	163.0 N @ 150 km/h (36.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	761.0 N @ 150 km/h (171.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	410 mm 16.142 in
Depth, packed	270 mm 10.63 in
Length, packed	1955 mm 76.969 in
Weight, gross	24 kg 52.911 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives

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CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



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