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.

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

OBSOLETE

This product was discontinued on: March 31, 2023

Replaced By:

VV-65B-R2	4-port sector antenna, 4x 1695–2690 MHz, 65° HPBW, 2x RET. Two pairs of AISG Input and Output ports to separately and independently control the RET on each array for operator sharing applications.

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
Radiator Material	Low loss circuit board
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 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)

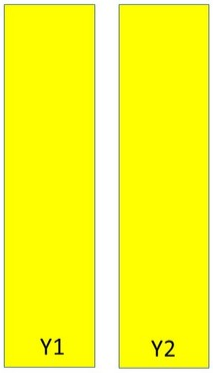
VV-65B-R1B-V2

Power Consumption, idle state, maximum	2 W
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		

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

Port Configuration

VV-65B-R1B-V2

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	19.1	19.3	19.5
Beamwidth, Horizontal, degrees	66	66	66	61	57
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	19	19	18	17	18
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 20 W, dBc	-150	-150	-150	-150	-150
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	18.8	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 ° | 18.6 7 ° | 18.9 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	±1.5	±2.6	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.4	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	16	16	16	15	13
Front-to-Back Total Power at 180° ± 30°, dB	25	25	26	27	26
CPR at Boresight, dB	16	18	18	21	19
CPR at Sector, dB	10	10	10	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	21 kg | 46.297 lb

Regulatory Compliance/Certifications

Agency	**Classification**
CE	Compliant with the relevant CE product directives

VV-65B-R1B-V2

ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

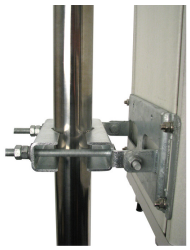
Included Products

BSAMNT-F	–	Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

BSAMNT-F



Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

Product Classification

Product Type	Fixed tilt mounting kit

General Specifications

Application	Outdoor
Color	Silver

Dimensions

Compatible Diameter, maximum	114.3 mm | 4.5 in
Compatible Diameter, minimum	61 mm | 2.402 in
Weight, net	3.6 kg | 7.937 lb

Material Specifications

Material Type	Galvanized steel

Packaging and Weights

Included	Brackets | Hardware
Packaging quantity	1
Weight, gross	3.8 kg | 8.378 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant