

VVSSP-65S-R1BV2



10-port small cell antenna, 4x 1695–2690, 4x 3400–3800 and 2x 5150–5925 MHz. 65° HPBW, Internal RET and SBT

OBSOLETE

This product was discontinued on: November 30, 2023

Replaced By:

VVSSP-65S-R1BV2-V4 10-port small cell antenna, 4x 1695–2690, 4x 3300-4200 and 2x 5150-5925 MHz. 65° HPBW, Internal RET and SBT

General Specifications

Antenna Type	Small Cell
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	PVC, 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, high band	10
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Interface	8-pin DIN Male
RET Interface, quantity	1 male
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1
Internal RET	High band (1)

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Power Consumption, active state, maximum	1 W
Power Consumption, idle state, maximum	10 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

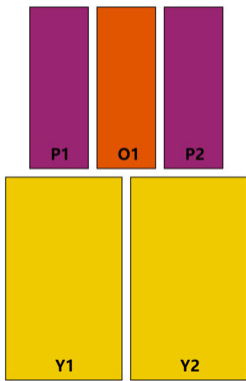
Width	305 mm 12.008 in
Depth	118 mm 4.646 in
Length	600 mm 23.622 in
Net Weight, antenna only	6.9 kg 15.212 lb

5 GHz Port Power Table

5 GHz FCC Power Requirements				
U-NII Band	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3
Frequency (MHz)	5150 - 5250	5250 - 5350	5470 - 5725	5725 - 5850
Max Input power per port to align with FCC Title 47 Part 15 (Watts)	0.5	0.125	0.125	0.5

Array Layout

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Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	1	AISG1	ARxxxxxxxxxxxxxx1
Y2	1695-2690	3 - 4			
P1	3400-3800	5 - 6	N/A	NA	N/A
P2	3400-3800	7 - 8			
O1	5150-5925	9 - 10			

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3400 – 3800 MHz 5150 – 5925 MHz
Polarization	±45°
Total Input Power, maximum	300 W @ 50 °C

Electrical Specifications

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Frequency Band, MHz	1695–1920	1920–2200	2300–2690	3400–3800	5150–5925
Gain, dBi	12.6	13.1	13.5	10.4	4.6
Beamwidth, Horizontal, degrees	70	72	65	69	60
Beamwidth, Vertical, degrees	20.7	18.1	15.6	34.1	26.1
Beam Tilt, degrees	2–10	2–10	2–10	4	4
USLS (First Lobe), dB	14	18	16	15	11
Front-to-Back Ratio at 180°, dB	26	24	29	27	30
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28
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	-153	-153	-150		
Input Power per Port at 50°C, maximum, watts	75	75	75	35	5

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920–2200	2300–2690	3400–3800	5150–5925
Gain by all Beam Tilts, average, dBi	12.3	12.7	12.9	9.8	3.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.7	±0.6	±1.9
Gain by Beam Tilt, average, dBi	2° 12.1 6° 12.3 10° 12.4	2° 12.5 6° 12.8 10° 12.9	2° 12.5 6° 13.0 10° 13.3		
Beamwidth, Horizontal Tolerance, degrees	±6.8	±6.7	±4.5	±11	±16
Beamwidth, Vertical Tolerance, degrees	±2	±1.7	±1.6	±4.3	±2
Front-to-Back Total Power at 180° ± 30°, dB	24	21	24	18	23
CPR at Boresight, dB	22	16	15	14	10
CPR at Sector, dB	12	10	8	5	0

Mechanical Specifications

Wind Loading @ Velocity, frontal	198.0 N @ 150 km/h (44.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	37.0 N @ 150 km/h (8.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	240.0 N @ 150 km/h (54.0 lbf @ 150 km/h)

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Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed 404 mm | 15.906 in

Depth, packed 276 mm | 10.866 in

Length, packed 772 mm | 30.394 in

Weight, gross 9.4 kg | 20.723 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015



Classification

Designed, manufactured and/or distributed under this quality management system

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

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.

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 115 mm | 4.528 in

Compatible Diameter, minimum 60 mm | 2.362 in

Weight, net 6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 6.4 kg | 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

BSAMNT-3

