

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 29, 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 Location	Bottom
RF Connector Quantity, high band	10
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	0
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

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

Dimensions

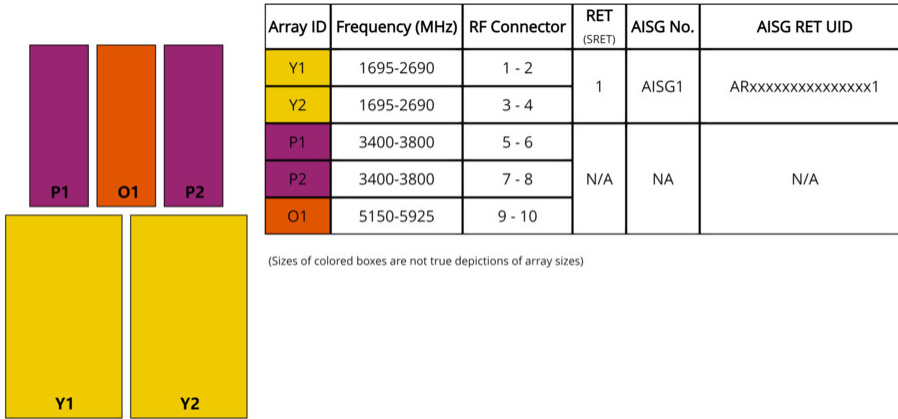
Width	305 mm 12.008 in
Depth	118 mm 4.646 in
Length	600 mm 23.622 in
Net Weight, antenna only	6.9 kg 15.212 lb

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

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Array Layout



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

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Electrical Specifications

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
Gain at Mid Tilt, dBi	12.3	12.8	13		
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

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

Included Products

VVSSP-65S-R1BV2

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