

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

Dimensions

Width	307 mm 12.087 in
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Depth	118 mm 4.646 in
Length	600 mm 23.622 in
Net Weight, without mounting kit	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

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4200 MHz 5150 – 5925 MHz
Polarization	±45°
Total Input Power, maximum	440 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	1695–1920	1920–2180	2300–2690	3300–3550	3550–3700	3700–4200	5150–5925
Gain, dBi	12.5	12.9	13.5	10.4	10.1	10.3	4.1
Beamwidth, Horizontal, degrees	74	75	68	67	75	69	61
Beamwidth, Vertical, degrees	20.5	18.3	15.9	35.8	32.8	33.1	25.4
Beam Tilt, degrees	2–10	2–10	2–10	7	7	7	4
USLS (First Lobe), dB	14	16	15	15	14	14	
Front-to-Back Ratio at 180°, dB	26	24	29	28	28	25	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-150	-140	-140	-140	
Input Power per Port at 50°C, maximum, watts	75	75	75	35	35	35	5

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Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920–2180	2300–2690	3300–3550	3550–3700	3700–4200	5150–5925
Gain by all Beam Tilts, average, dBi	12.2	12.4	13	10	9.7	9.9	3.1
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.6	±0.6	±0.6	±0.6	±1.9
Gain by Beam Tilt, average, dBi	2° 11.9 6° 12.3 10° 12.4	2° 12.1 6° 12.4 10° 12.6	2° 12.6 6° 13.1 10° 13.3				
Beamwidth, Horizontal Tolerance, degrees	±6.5	±7.4	±5.7	±6.6	±7.5	±9.4	±12.3
Beamwidth, Vertical Tolerance, degrees	±2.6	±1.8	±1.7	±3.2	±3.3	±4.1	±2.6
Front-to-Back Total Power at 180° ± 30°, dB	22	20	24	19	17	20	21
CPR at Boresight, dB	19	15	15	18	14	15	10
CPR at Sector, dB	12	10	7	5	5	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)
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-V4

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