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, 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
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)

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners.
Revised: March 12, 2025

VVSSP-65S-R1BV2-V4

Dimensions

Width	307 mm | 12.087 in
Depth	118 mm | 4.646 in
Length	600 mm | 23.622 in
Net Weight, antenna only	6.9 kg | 15.212 lb

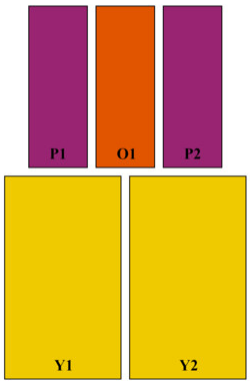
5 GHz Port Power Table

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

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners.
Revised: March 12, 2025

VVSSP-65S-R1BV2-V4



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
Y1	1695-2690	1 - 2	1	AISG1	ARxxxxxxxxxxxxxx1
Y2	1695-2690	3 - 4			
P1	3300-4200	5 - 6	N/A	NA	N/A
P2	3300-4200	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 | 3300 – 4200 MHz | 5150 – 5925 MHz
Polarization	±45°
Total Input Power, maximum	440 W @ 50 °C

Electrical Specifications

	Y1,Y2	Y1,Y2	Y1,Y2	P1,P2	P1,P2	P1,P2	O1
Frequency Band, MHz	**1695–1920**	**1920–2180**	**2300–2690**	**3300–3550**	**3550–3700**	**3700–4200**	**5150–5925**
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	9,10
Gain, dBi	12.5	12.9	13.5	10.4	10.1	10.3	4.1

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners.
Revised: March 12, 2025

ANDREW®
an Amphenol company

VVSSP-65S-R1BV2-V4

Gain at Mid Tilt, dBi	12.3	12.4	13.1				
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

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
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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners.
Revised: March 12, 2025

VVSSP-65S-R1BV2-V4

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

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners.
Revised: March 12, 2025