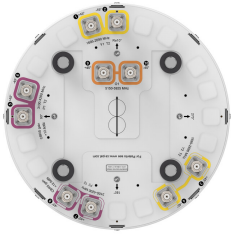


# VVSSP-65PS-F2



10-port small cell antenna, 4x 1695-2690, 4x 3100-4200, 2x 5150-5925 MHz, bi-directional pattern, fixed tilt.

- Broadband Mid Band arrays (AWS/PCS/WCS/Band 41) with 4T4R (4X MIMO) capability
- Broadband performance – optimized for CBRS and C-bands
- 4 high gain ports for the 3GHz band

## General Specifications

<b>Antenna Type</b>	Small Cell
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	ASA, UV stabilized
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	10
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	10

## Dimensions

<b>Width</b>	370 mm   14.567 in
<b>Depth</b>	370 mm   14.567 in
<b>Length</b>	610 mm   24.016 in
<b>Net Weight, without mounting kit</b>	15 kg   33.069 lb

## 5 GHz Port Power Table

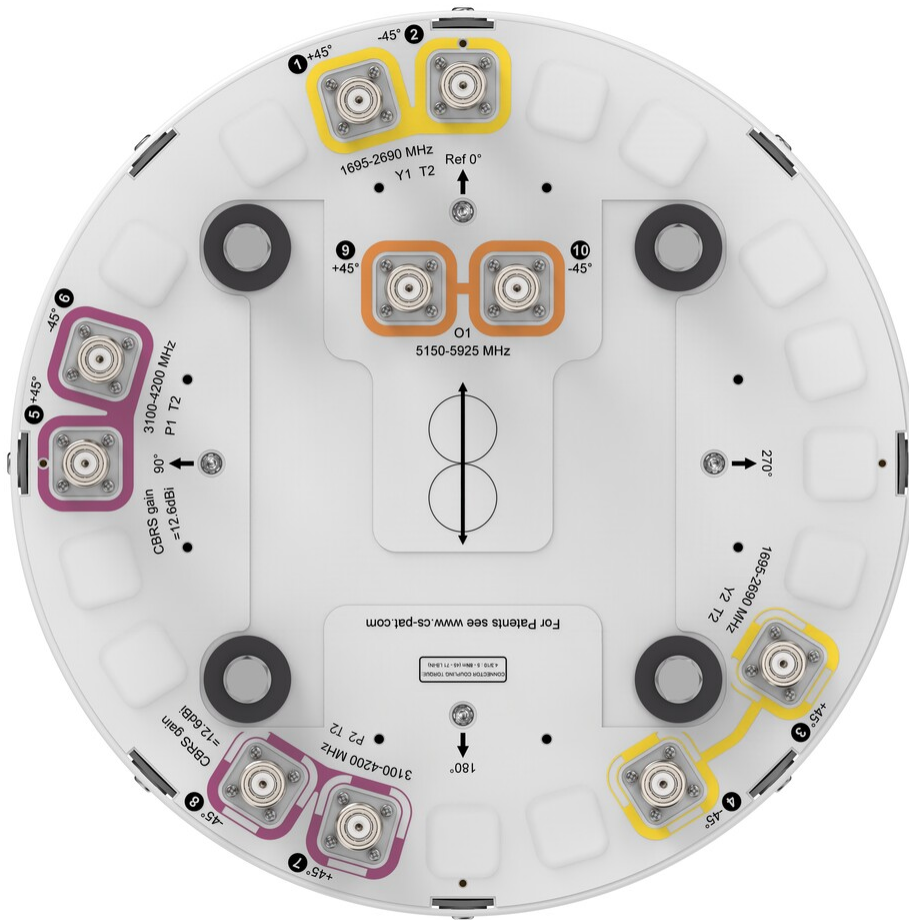
# VVSSP-65PS-F2

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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

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   3100 – 4200 MHz   5150 – 5925 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W

## Electrical Specifications

Frequency Band, MHz	1695–1920	1920–2200	2300–2690	3100–3550	3550–3700	3700–4200	5150–5925
<b>Gain, dBi</b>	9.5	10.5	10.6	11.3	12	12	3.9
<b>Beamwidth, Horizontal, degrees</b>	78.9	68.1	63.7	68.7	61.3	62.7	360
<b>Beamwidth, Vertical, degrees</b>	21.5	19.4	15	10.1	9.1	8.1	23.6

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<b>Beam Tilt, degrees</b>	2	2	2	2	2	2	2
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	28	28	28	28	28	28	28
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-145	-145	-145	
<b>Input Power per Port, maximum, watts</b>	200	200	200	150	150	150	10
<b>Input Power per Port at 50°C, maximum, watts</b>	150	150	150	100	100	100	5

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>1695–1920</b>	<b>1920–2200</b>	<b>2300–2690</b>	<b>3100–3550</b>	<b>3550–3700</b>	<b>3700–4200</b>	<b>5150–5925</b>
<b>Gain by all Beam Tilts, average, dBi</b>	8.9	9.8	9.8	10.5	11.4	11.3	2.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.8	±1	±1.4	±1.1	±1.1	±0.8	±1.6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±3.3	±2.4	±2.2	±1.1	±0.4	±0.9	±4.9

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	129.0 N @ 150 km/h (29.0 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	478 mm   18.819 in
<b>Depth, packed</b>	464 mm   18.268 in
<b>Length, packed</b>	894 mm   35.197 in
<b>Weight, gross</b>	19.4 kg   42.77 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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\* Footnotes

**Performance Note**      Severe environmental conditions may degrade optimum performance