

# VVSSP-360S-M



10-port small cell antenna, 4x 1695–2690, 4x 3400–3800 and 2x 5150–5925 MHz. 360° Horizontal Beamwidth, MANUAL ELECTRICAL TILT

## General Specifications

<b>Antenna Type</b>	Small Cell
<b>Band</b>	Multiband
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	ASA
<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, mid band</b>	0
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	10

## Dimensions

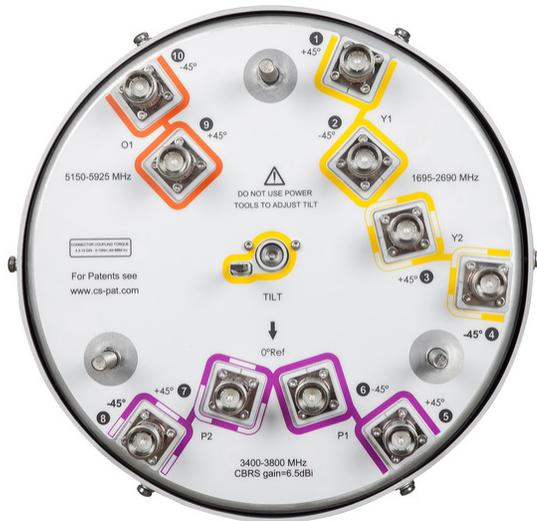
<b>Length</b>	610 mm   24.016 in
<b>Net Weight, without mounting kit</b>	13 kg   28.66 lb
<b>Outer Diameter</b>	305 mm   12.008 in

## 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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## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   3400 – 3800 MHz   5150 – 5925 MHz
<b>Polarization</b>	±45°

## Electrical Specifications

Frequency Band, MHz	1695–1880	1850–1990	1920–2180	2300–2690	3400–3800	5150–5925
<b>Gain, dBi</b>	7.8	8.4	8.5	8.4	7.2	4.1
<b>Beamwidth, Horizontal, degrees</b>	360	360	360	360	360	360
<b>Beamwidth, Vertical, degrees</b>	21.2	19.5	18.3	15.8	30.2	25
<b>Beam Tilt, degrees</b>	2–10	2–10	2–10	2–10	0	0
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25
<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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153		
<b>Input Power per Port at 50°C,</b>	75	75	75	75	35	5

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## maximum, watts

## Mechanical Specifications

<b>Wind Loading @ Velocity, maximum</b>	102.0 N @ 150 km/h (22.9 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	418 mm   16.457 in
<b>Depth, packed</b>	404 mm   15.906 in
<b>Length, packed</b>	888 mm   34.961 in
<b>Weight, gross</b>	17.5 kg   38.581 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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