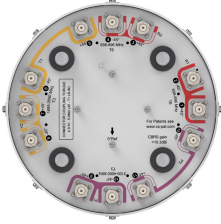


# NNVVSS-360M-F3



12-port quasi-omni antenna, 4x 698-896, 4x1695-2690 and 4x 3100-4000MHz, 360° horizontal beamwidth, Fixed tilt.

- Extended length to maximize gain with volume < 3 cu. ft
- Fixed tilt of 3 degrees for mid band and high band arrays

## General Specifications

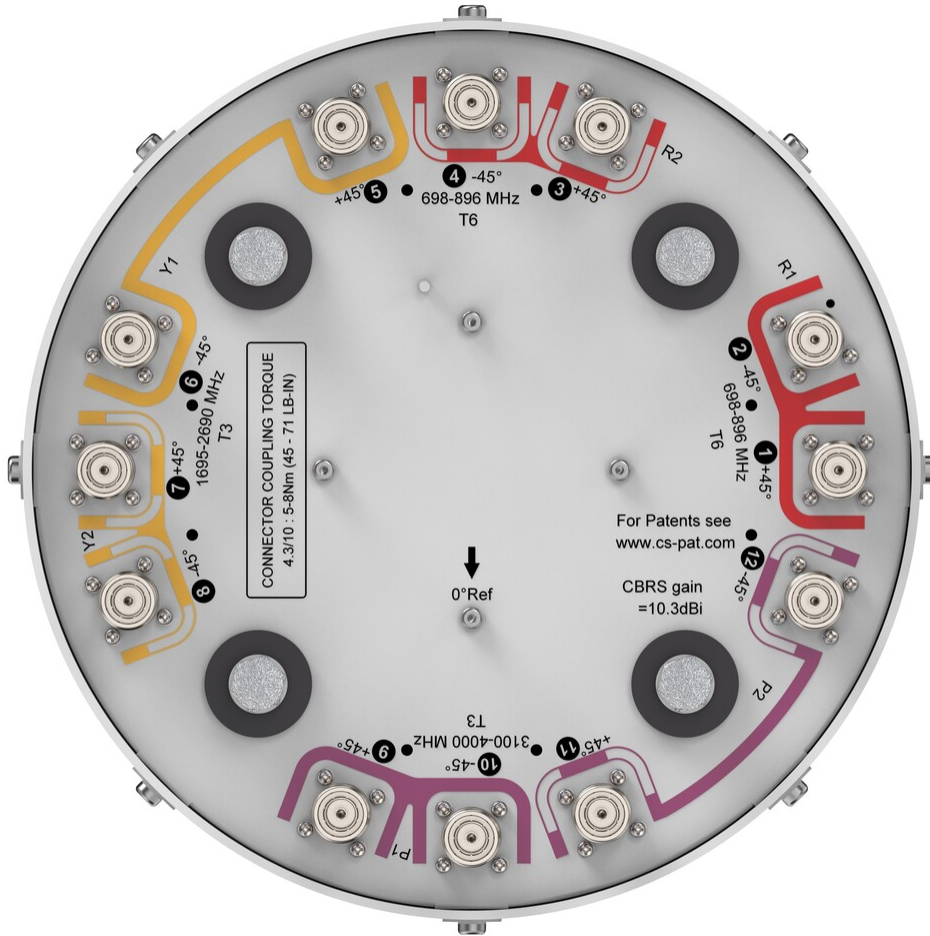
<b>Antenna Type</b>	Small Cell
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<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>	4
<b>RF Connector Quantity, mid band</b>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## Dimensions

<b>Length</b>	1158 mm   45.591 in
<b>Net Weight, antenna only</b>	16 kg   35.274 lb
<b>Outer Diameter</b>	305 mm   12.008 in

## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   3100 – 4000 MHz   698 – 896 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1920	1920–2180	2300–2690	3100–3550	3550–3700	3700–4000
<b>Gain, dBi</b>	7.1	7.2	8.3	8.9	9.4	10.1	9.8	9.8
<b>Beamwidth, Horizontal, degrees</b>	360	360	360	360	360	360	360	360
<b>Beamwidth, Vertical, degrees</b>	24.1	22.6	16.3	14.1	11.1	10.8	10.1	9.6

# NNVVSS-360M-F3

<b>Beam Tilt, degrees</b>	6	6	3	3	3	3	3	3
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	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	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-145	-145	-145
<b>Input Power per Port at 50°C, maximum, watts</b>	150	150	150	150	150	100	100	100

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1920</b>	<b>1920–2180</b>	<b>2300–2690</b>	<b>3100–3550</b>	<b>3550–3700</b>	<b>3700–4000</b>
<b>Gain by all Beam Tilts, average, dBi</b>	6.6	6.9	7.8	8.6	8.9	9.7	9.4	9.1

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	201.0 N @ 150 km/h (45.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	201.0 N @ 150 km/h (45.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	201.0 N @ 150 km/h (45.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	201.0 N @ 150 km/h (45.2 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	427 mm   16.811 in
<b>Depth, packed</b>	407 mm   16.024 in
<b>Length, packed</b>	1442 mm   56.772 in
<b>Weight, gross</b>	20 kg   44.092 lb

## Regulatory Compliance/Certifications

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



### \* Footnotes

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