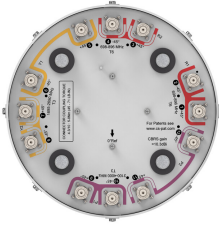


NNVVSS-360M-F3



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

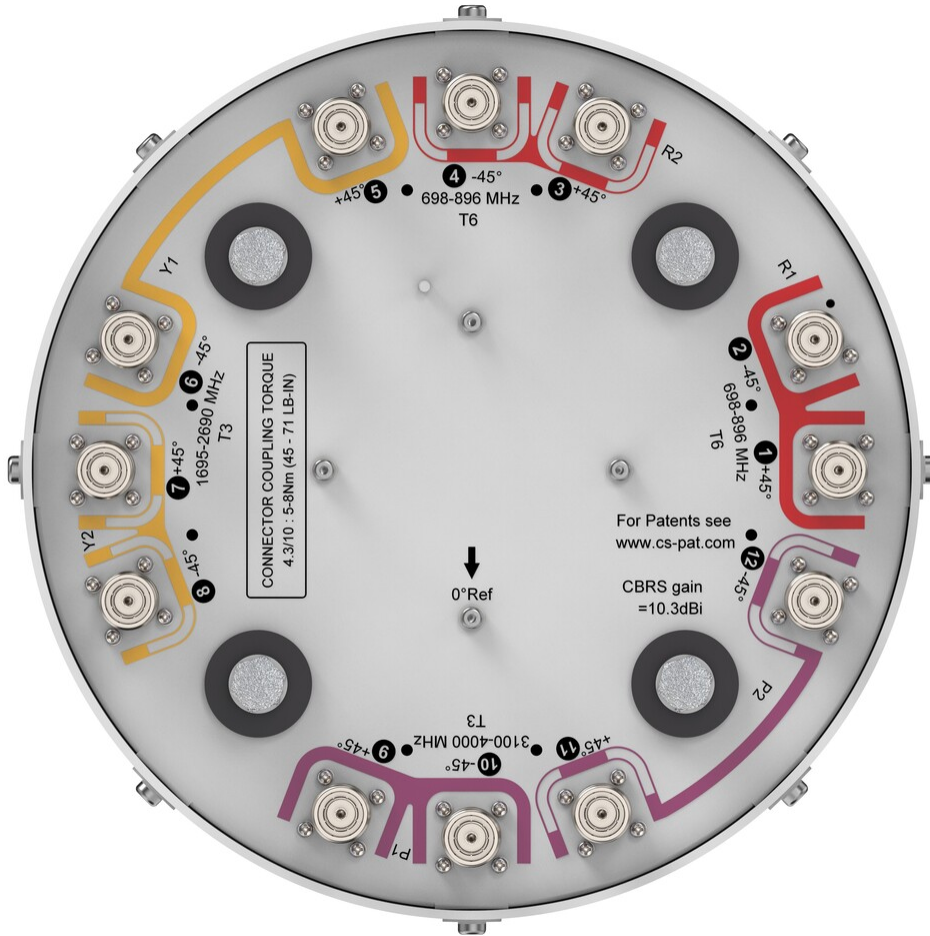
Antenna Type	Small Cell
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	ASA, UV stabilized
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	12

Dimensions

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

Port Configuration

NNVVSS-360M-F3



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3100 – 4000 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	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
Gain, dBi	7.1	7.2	8.3	8.9	9.4	10.1	9.8	9.8
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360
Beamwidth, Vertical, degrees	24.1	22.6	16.3	14.1	11.1	10.8	10.1	9.6

NNVVSS-360M-F3

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

Electrical Specifications, BASTA

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

Mechanical Specifications

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

Packaging and Weights

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

Regulatory Compliance/Certifications

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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