

NNV4SSP-360S-F4



18-port small cell antenna, 4x 698-896, 8x 1695-2690, 4x 3400-3800 and 2x 5150-5925 MHz, 360° Horizontal Beamwidth, fixed tilt.

General Specifications

Antenna Type	Small Cell
Band	Multiband
Effective Projective Area (EPA), frontal	0.17 m ² 1.83 ft ²
Effective Projective Area (EPA), lateral	0.17 m ² 1.83 ft ²
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	14
RF Connector Quantity, low band	4
RF Connector Quantity, total	18

Dimensions

Length	680 mm 26.772 in
Outer Diameter	370 mm 14.567 in

5 GHz Port Power Table

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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



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 3800 MHz 5150 – 5925 MHz 698 – 894 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	3400-3800	5150-5925
Gain, dBi	5.4	5.5	7.8	8.2	9	6.4	4.6
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360

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Beamwidth, Vertical, degrees	34.2	36.2	19.8	16.5	14.2	32.5	24.2
Beam Tilt, degrees	4	4	4	4	4	0	0
USLS (First Lobe), dB	12	8	15	15	11	21	6
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153		
Input Power per Port at 50°C, maximum, watts	75	75	75	75	75	35	5

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1920	1920–2180	2300–2690	3400–3800	5150–5925
Gain by all Beam Tilts, average, dBi	5	5.2	7	7.3	8.4	6	3.9
Gain by all Beam Tilts Tolerance, dB	±0.9	±0.5	±1.2	±0.9	±1.1	±0.6	±0.3
Beamwidth, Vertical Tolerance, degrees	±5.2	±11.2	±4.7	±1.9	±1.7	±7.3	±3.3
CPR at Boresight, dB	13	16	12	17	18	10	14

Mechanical Specifications

Wind Loading at Velocity, maximum	144.0 N @ 150 km/h 32.0 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	966 mm 38.032 in
Net Weight, without mounting kit	17.2 kg 37.919 lb
Weight, gross	21.7 kg 47.84 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above 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.commscope.com/ProductCompliance

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ROHS

Compliant/Exempted



* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance