

NNV4S4-360S-F2



20-port small cell antenna, 4x 698-896, 8x 1695-2690, 8x 3300-4200, 360° Horizontal Beamwidth, fixed tilt.

General Specifications

Antenna Type	Omni
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
Radome Material	ASA
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	8
RF Connector Quantity, low band	4
RF Connector Quantity, total	20

Dimensions

Length	610 mm 24.016 in
Net Weight, antenna only	14.6 kg 32.187 lb
Outer Diameter	370 mm 14.567 in

Port Configuration

NNV4S4-360S-F2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	P1-P4	P1-P4	P1-P4
Frequency Band, MHz	698-806	806-896	1695-1920	1920-2180	2300-2360	2360-2690	3300-3550	3550-3700	3700-4200
RF Port	1~4	1~4	5~12	5~12	5~12	5~12	13~20	13~20	13~20
Gain, dBi	4.9	5.2	7.4	8.3	8.7	8.9	6.3	6.3	6.2
Beamwidth, Horizontal,	360	360	360	360	360	360	360	360	360

NNV4S4-360S-F2

degrees

Beamwidth, Vertical, degrees	45.9	48.8	23.1	19.2	17.3	15.5	34.5	33.5	28.5
Beam Tilt, degrees	2	2	2	2	2	2	2	2	2
USLS (First Lobe), dB	12	12	10	11	11	11	10	10	10
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-145	-145	-145
Input Power per Port at 50° C, maximum, watts	100	100	100	100	100	100	75	75	75

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1920	1920–2180	2300–2360	2360–2690	3300–3550	3550–3700	3700–4200
Gain by all Beam Tilts, average, dBi	4.6	4.7	7	7.6	8.1	8.4	6	6.1	5.8
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.7	±0.6	±0.8	±0.8	±1	±0.8	±0.6	±1
Beamwidth, Vertical Tolerance, degrees	±5	±6	±3.5	±3	±1.8	±1.4	±6	±5	±7

Mechanical Specifications

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

Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	894 mm 35.197 in
Weight, gross	19.3 kg 42.549 lb

Regulatory Compliance/Certifications

Agency	Classification
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NNV4S4-360S-F2

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

Performance Note	Severe environmental conditions may degrade optimum performance
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