

14-port quasi-omni antenna, 4x 698–896, 4x 1695–2690, 4x 3400-3800 and 2x 5150-5925 MHz, 360° horizontal beamwidth. Fixed and manual tilt.

General Specifications

Antenna Type Small Cell
Band Multiband

Grounding TypeRF 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 Aluminum | Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 10

RF Connector Quantity, low band 4

RF Connector Quantity, total 14

Dimensions

 Length
 730 mm | 28.74 in

 Net Weight, without mounting kit
 12.1 kg | 26.676 lb

 Outer Diameter
 305 mm | 12.008 in

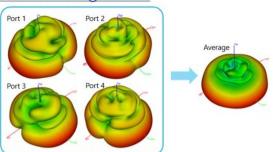
5 GHz Port Power Table

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	



Port Configuration

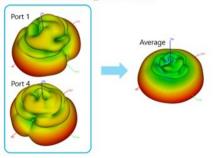
4X Port Configuration:





• When using a 4T4R radio, use ports 1 – 4 of the pattern diversity antenna

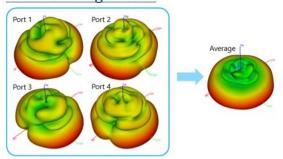
2X Port Configuration:

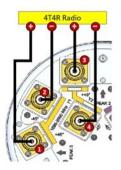




- When using a 2T2R radio, use ports 1 & 4 of the pattern diversity antenna
- · Using ports 2 & 3 yields the same result
- · This ensures that both orientations and both polarizations are used
- When using this antenna in 2T2R, then this antenna does not have full polarization diversity

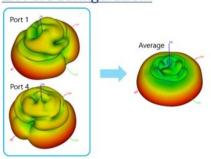
4X Port Configuration:





• When using a 4T4R radio, use ports 1 – 4 of the pattern diversity antenna

2X Port Configuration:





- When using a 2T2R radio, use ports 1 & 4 of the pattern diversity antenna
- · Using ports 2 & 3 yields the same result
- · This ensures that both orientations and both polarizations are used
- When using this antenna in 2T2R, then this antenna does not have full polarization diversity

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3400 – 3800 MHz | 5150 – 5925 MHz | 698 – 896 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1920	1920-2180	2300-2690	3400-3800	5150-5925
Gain, dBi	5.1	5.1	7.1	7.8	8.3	6.7	4
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360
Beamwidth, Vertical, degrees	62.3	55.1	19.2	16.9	14.3	38.2	20.9
Beam Tilt, degrees	0	0	5-15	5-15	5-15	0	0
Isolation, Cross Polarization,	25	25	25	25	25	25	25

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dB							
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	-150		
Input Power per Port at 50°C,	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	4.6	4.6	6.3	7.1	7.6	6.3	3.2
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.7	±1.1	±1	±0.8	±0.7	±0.9
Gain by Beam Tilt, average, dBi			5° 8.4 10° 8.5 15° 8.4	5° 8.9 10° 9.3 15° 9.3	5° 9.2 10° 9.5 15° 9.5		
Beamwidth, Vertical Tolerance, degrees	±12.9	±12.3	±2.4	±1.6	±1.6	±5.5	±5.3

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 122.0 N @ 150 km/h (27.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 122.0 N @ 150 km/h (27.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 122.0 N @ 150 km/h (27.4 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 418 mm | 16.457 in

 Depth, packed
 404 mm | 15.906 in

 Length, packed
 1000 mm | 39.37 in

 Weight, gross
 16.7 kg | 36.817 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
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted





* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

