

24-port small cell antenna, 4x 617-960, 8x 1695-2690, 8x 3400-4000 MHz beamformer, 4x 3100-4200 MHz, 360° Horizontal Beamwidth, fixed tilt.

- Array configuration provides capability for 4T4R (4X MIMO) on Low Band, dual 4T4R (4X MIMO) on Mid Band and 4T4R (4X MIMO) on High Band
- 8T8R omni beamforming array with calibration port for 3.5 GHz (Bands 48, 77, 78)

General Specifications

Antenna Type Small Cell

Band Multiband

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity

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, UV stabilized

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 12
RF Connector Quantity, mid band 8

RF Connector Quantity, low band 4

RF Connector Quantity, total 24

Dimensions

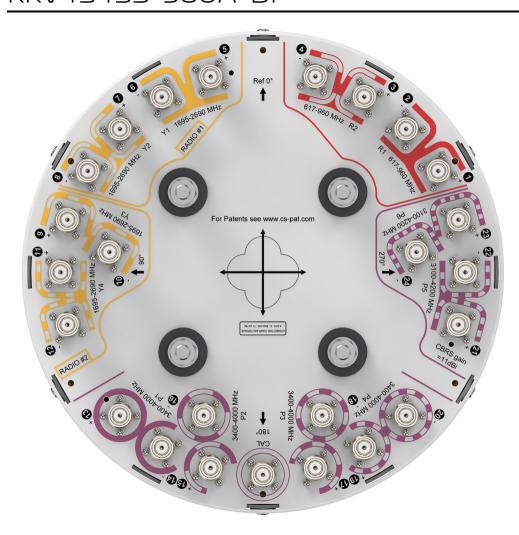
 Length
 1574 mm | 61.969 in

 Net Weight, antenna only
 35.5 kg | 78.264 lb

 Outer Diameter
 370 mm | 14.567 in

Port Configuration





Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3100 – 4200 MHz | 3400 – 4000 MHz | 617 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,440 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	617-694	694-806	806-896	896-960	1695-188	01850-199	01920-220	02300-250	02496-2690
RF Port	1-4	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360	360

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Beamwidth, Vertical, degrees	26.3	22.3	19.2	19.1	7.8	7.2	6.7	5.7	5.2
Beam Tilt, degrees	10	10	10	10	0	0	0	0	0
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	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	150	150	150	150	150	150	150	150	150

Electrical Specifications, BASTA

Frequency Band, MHz	617-694	694-806	806-896	896-960	1695-188	301850-199	01920-220	002300-250	002496-2690
Gain by all Beam Tilts, average, dBi	6.7	6.6	6.2	6.3	11.1	11.6	12.1	12.5	11.5
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.7	±0.6	±0.6	±0.6	±0.6	±0.8	±1	±0.6
Beamwidth, Vertical Tolerance, degrees	±1.4	±2.2	±1.1	±1.4	±0.6	±0.3	±0.4	±0.6	±0.3

Electrical Specifications

	P1-P4	P1-P4	P1-P4	P5-P6	P5-P6	P5-P6
Frequency Band, MHz	3400-355	03550-370	03700-400	03100-355	03550-370	03700-4200
RF Port	13-20	13-20	13-20	21-24	21-24	21-24
Beamwidth, Horizontal, degrees	360	360	360	360	360	360
Beamwidth, Vertical, degrees	7.7	7.3	6.8	12.8	11.8	10.8
Beam Tilt, degrees	0	0	0	0	0	0
Coupling level, Amp, Antenna port to Cal port, dB	26	26	26			
Coupling level, max Amp Δ, Antenna port to Cal port, dB	±2	±2	±2			
Coupler, max Amp Δ , Antenna port to Cal port, dB	1	1	1			
Coupler, max Phase Δ , Antenna port to Cal port,	10	10	10			

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degrees						
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25
Isolation, Co- polarization, dB	15	15	15			
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
PIM, 3rd Order, 2 x 20 W, dBc	-145	-145	-145	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	100	100	100	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	3400-355	03550-370	03700-400	03100-355	03550-370	03700-4200
Gain by all Beam Tilts, average, dBi	9.6	10.8	11.1	9.5	9.8	9.9
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.5	±0.8	±0.8	±0.7	±0.7
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.3	±0.5	±0.8	±0.8	±1.1

Electrical Specifications, Service Beam

 Frequency Band, MHz
 3400-35503550-37003700-4000

 Steered 0° Gain, dBi
 14.6
 15.8
 16

 Steered 0° Beamwidth, Horizontal, degrees
 64
 52
 48

Electrical Specifications, Broadcast 360°

Frequency Band, MHz	3400-3	5503550-3	7003700-400
Gain, dBi	9.6	10.6	11.2
Beamwidth, Horizontal at 3 dB, degrees	360	360	360
Beamwidth, Vertical, degrees	7.7	7.2	6.8

Mechanical Specifications

Wind Loading @ Velocity, maximum 351.0 N @ 150 km/h (78.9 lbf @ 150 km/h)

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

COMMSCOPE®

Packaging and Weights

 Width, packed
 478 mm | 18.819 in

 Depth, packed
 464 mm | 18.268 in

 Length, packed
 1935 mm | 76.181 in

 Weight, gross
 43.5 kg | 95.901 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

