

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

General Specifications

Antenna Type	Sector
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	Fiberglass, UV resistant
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	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

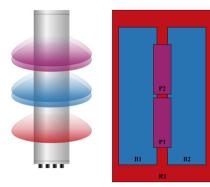
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10-30 Vdc
Internal RET	High band (1) Low band (1)

Page 1 of 4



Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1828 mm 71.969 in
Net Weight, antenna only	23.1 kg 50.927 lb

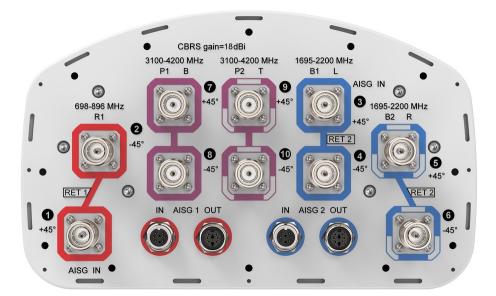
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	416.62	CD
B2	1695-2200	5 - 6	2	AISG2	CPxxxxxxxxxxxxxXXXXXXXXXXB1
P1	3100-4200	7 - 8			
P2	3100-4200	9 - 10	N/A	NA	N/A

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



Page 2 of 4



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 3100 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

	R1	R1	B1,B2	B1,B2	B1,B2	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	698-806	806-896	1695-188	0 1850–199	0 1920–220	0 3100-355	0 3550–370	0 3700-4200
RF Port	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	7,8,9,10	7,8,9,10	7,8,9,10
Gain, dBi	14.8	15.2	17.4	17.8	18	17.8	17.6	17.2
Beamwidth, Horizontal, degrees	65	62	66	61	64	52	60	62
Beamwidth, Vertical, degrees	13	11.6	5.5	5.2	4.9	5.7	5.3	5.1
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	10	10	10
USLS (First Lobe), dB	15	15	16	18	18	15	19	18
Front-to-Back Ratio at 180°, dB	26	29	31	28	27	30	34	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	28	28	28
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	300	300	300	300	300	100	100	100

Mechanical Specifications

Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed

380 mm | 14.961 in



Depth, packed		295 mm 11.614 in	
Length, packed		1956 mm 77.008 in	
Weight, gross		34.4 kg 75.839 lb	
Regulatory Com	pliance/Certificatio	NS	
Agency	Classification		
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system		
Included Produc bsamnt-3	– Wide Profile	Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. one scissor top bracket set and one bottom bracket set.	
* Footnotes			
Performance Note	Severe environmental co	nditions may degrade optimum performance	

