

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
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	4
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

#### Remote Electrical Tilt (RET) Information

CommRET v2
4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_ Return

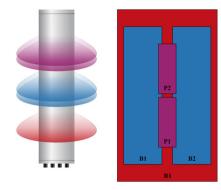




RET Interface, quantity	2 female   2 male
Input Voltage	10-30 Vdc
Internal RET	High band (1)   Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)
Dimensions	
Width	301 mm   11.85 in
Depth	181 mm   7.126 in
Length	1828 mm   71.969 in

Net Weight, without mounting kit

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1	
B1	1695-2200	3 - 4			<b>6</b> 0	
B2	1695-2200	5 - 6	2	AISG2	CPxxxxxxxxxxxxxB1	
P1	3100-4200	7 - 8				
P2	3100-4200	9 - 10	N/A	NA	N/A	

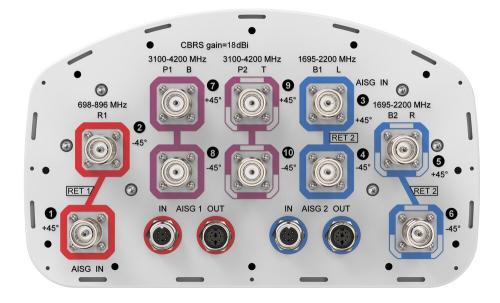
23.1 kg | 50.927 lb

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

## Port Configuration



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### **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**

Frequency Band, MHz	698-806	806-896	1695-188	0 1850–199	0 1920–220	0 3100-355	0 3550-370	0 3700-4200
Gain, dBi	14.8	15.2	17.4	17.8	18	17.7	17.3	17.9
Beamwidth, Horizontal, degrees	65	62	66	61	64	54	64	60
Beamwidth, Vertical, degrees	13	11.6	5.5	5.2	4.9	5.7	5.3	4.9
Beam Tilt, degrees	0-14	0-14	0-7	0-7	0-7	4	4	4
USLS (First Lobe), dB	15	15	16	18	18	16	17	18
Front-to-Back Ratio at 180°, dB	26	29	31	28	27	30	33	29
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	-140	-140	-140

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Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	100	100	100	
Mechanical Specifications									
Wind Loading @ Velocity, fronta	I		278.0 N @ 1	50 km/h (62	2.5 lbf @ 150	km/h)			
Wind Loading @ Velocity, latera	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			287.0 N @ 150 km/h (64.5 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 Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



#### Included Products

BSAMNT-3

Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

### \* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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