

10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100-4000 MHz, 65° HPBW, 3x RETs and 2x SBTs, active RET on C-Band, 1.4m Length

- 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 mid band allow remote RET control from the radio over the RF jumper cable
- Both mid bands are controlled by the same RET to ensure same tilt level for 4x MIMO. The high band RET is controlled via the mid band RET bus

OBSOLETE

This product was discontinued on: March 30, 2024

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

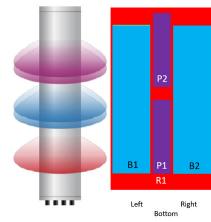
DRE

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RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10-30 Vdc
Internal Bias Tee	Port 1 Port 3
Internal RET	High band (1) Low band (1) Mid 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	1413 mm 55.63 in

Net Weight, without mounting kit

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	CP <u>xxxxxxxxxxxxx</u> R1
B1	1695-2200	3-4	-	65
B2	1695-2200	5-6	2	CP <u>xxxxxxxxxxxxxxx</u> B1
P1	3100-4000	7-8		6D D 1
P2	3100-4000	9-10	3	CP <u>xxxxxxxxxxxxxxxx</u> P1

19.5 kg | 42.99 lb

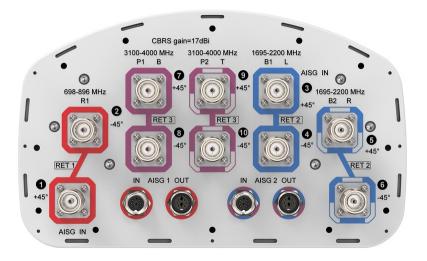
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 - 2200 MHz 3100 - 4000 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 3700-4000
Gain, dBi	13.8	13.9	16.2	16.7	16.9	16.9	16.7	16.7
Beamwidth, Horizontal, degrees	67	64	69	62	62	56	63	61
Beamwidth, Vertical, degrees	16.2	14.4	7	6.6	6.4	7.5	7	6.6
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	16	16	17	16	17	16	18	19
Front-to-Back Ratio at 180°, dB	29	27	30	28	27	31	32	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
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, fronta	al		206.0 N @ 1	50 km/h (46	5.3 lbf @ 150	km/h)		
Wind Loading @ Velocity, latera	I		169.0 N @ 1	50 km/h (38	3.0 lbf @ 150	km/h)		
Wind Loading @ Velocity, maximum			396.0 N @ 150 km/h (89.0 lbf @ 150 km/h)					
Wind Loading @ Velocity, rear			208.0 N @ 1	50 km/h (46	5.8 lbf @ 150	km/h)		
Wind Speed, maximum			241 km/h (1	50 mph)				
Packaging and Weights								

Width, packed	441 mm 17.362 in
Depth, packed	337 mm 13.268 in
Length, packed	1558 mm 61.339 in
Weight, gross	30.4 kg 67.02 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



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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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.

Product Classification	
Product Type	Downtilt mounting kit
General Specifications	
Application	Outdoor
Color	Silver
Dimensions	
Compatible Diameter, maximum	115 mm 4.528 in
Compatible Diameter, minimum	60 mm 2.362 in
Weight, net	6.2 kg 13.669 lb
Material Specifications	
Material Type	Galvanized steel
Packaging and Weights	
Included	Brackets Hardware
Packaging quantity	1
Weight, gross	6.4 kg 14.11 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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