

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 Sec	ctor
Band Mul	ltiband
Color Ligh	ht Gray (RAL 7035)
	connector inner conductor and body grounded to reflector and mounting cket
Performance Note Out	tdoor usage
Radome Material Fibe	erglass, UV resistant
Reflector Material Alur	minum
<b>RF Connector Interface</b> 4.3-	-10 Female
RF Connector Location Bott	tom
RF Connector Quantity, high band 4	
<b>RF Connector Quantity, mid band</b> 4	
<b>RF Connector Quantity, low band</b> 2	
<b>RF Connector Quantity, total</b> 10	

#### Remote Electrical Tilt (RET) Information

#### **RET Hardware**

CommRET v2

ANDREW

Amphenol company

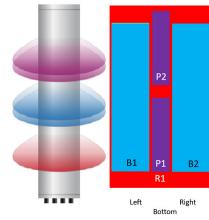
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RET Interface	8-pin DIN Female   8-pin DIN Male				
RET Interface, quantity	2 female   2 male				
Input Voltage	10-30 Vdc				
Internal Bias Tee	Port 1   Port 3				
Internal RET	High band (1)   Low band (1)   Mid band (1)				
Power Consumption, active 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		<b>6D D 1</b>
P2	3100-4000	9-10	3	CP <u>xxxxxxxxxxxxxxxx</u> P1

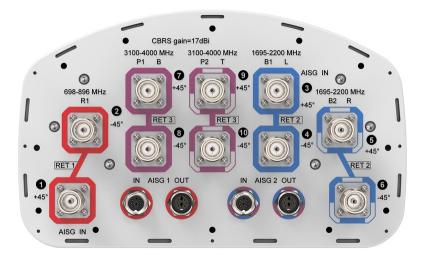
19.5 kg | 42.99 lb

(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

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Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	100	100	100	
Mechanical Specifica	tions								
Wind Loading @ Velocity, fronta	I		206.0 N @ 1	50 km/h (46	.3 lbf @ 150	km/h)			
Wind Loading @ Velocity, lateral			169.0 N @ 150 km/h (38.0 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	.8 lbf @ 150	km/h)			
Wind Speed, maximum			241 km/h (15	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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