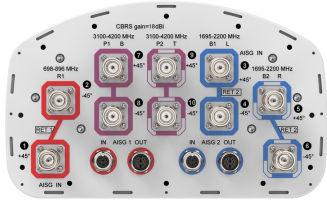


# NHHSS-65C-R2BT6



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

## OBSELETE

This product was discontinued on: **March 30, 2023**

### Replaced By:

NHHSS-65C-R2BT4      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.

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Aluminum   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, mid band</b>	4
<b>RF Connector Quantity, low band</b>	2

# NHHSS-65C-R2BT6

**RF Connector Quantity, total** 10

## Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 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 Bias Tee** Port 1 | Port 3

**Internal RET** 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

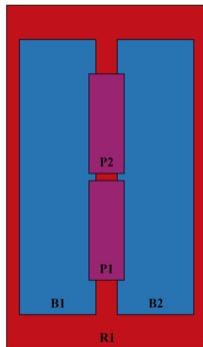
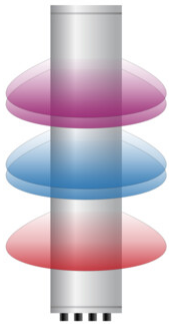
**Width** 301 mm | 11.85 in

**Depth** 181 mm | 7.126 in

**Length** 2438 mm | 95.984 in

**Net Weight, without mounting kit** 28.1 kg | 61.95 lb

## Array Layout

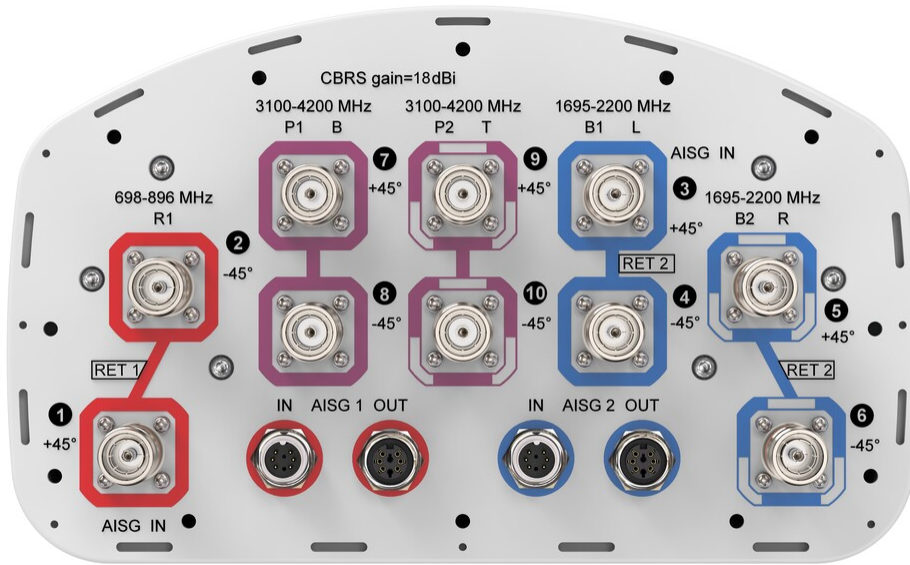


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	CPxxxxxxxxxxxxxxxxB1
B2	1695-2200	5 - 6			
P1	3100-4200	7 - 8	N/A	NA	N/A
P2	3100-4200	9 - 10			

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

## Port Configuration

# NHHSS-65C-R2BT6



## Electrical Specifications

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

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	3100–3550	3550–3700	3700–4200
<b>Gain, dBi</b>	15.8	16	17.5	17.8	18	17.1	17.5	17.4
<b>Beamwidth, Horizontal, degrees</b>	64	62	67	62	63	54	63	62
<b>Beamwidth, Vertical, degrees</b>	8.9	7.9	5.6	5.2	5	5.8	5.2	4.9
<b>Beam Tilt, degrees</b>	0–11	0–11	0–7	0–7	0–7	6	6	6
<b>USLS (First Lobe), dB</b>	19	19	19	21	23	15	20	20
<b>Front-to-Back Ratio at 180°, dB</b>	28	31	32	31	28	30	34	32
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	30	30	30
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-145	-145	-145

# NHHSS-65C-R2BT6

**Input Power per Port at 50°C, maximum, watts**      300      300      300      300      300      100      100      100

## Mechanical Specifications

**Wind Loading @ Velocity, lateral**      330.0 N @ 150 km/h (74.2 lbf @ 150 km/h)  
**Wind Loading @ Velocity, maximum**      757.0 N @ 150 km/h (170.2 lbf @ 150 km/h)  
**Wind Loading @ Velocity, rear**      398.0 N @ 150 km/h (89.5 lbf @ 150 km/h)  
**Wind Speed, maximum**      241 km/h (150 mph)

## Packaging and Weights

**Width, packed**      441 mm | 17.362 in  
**Depth, packed**      337 mm | 13.268 in  
**Length, packed**      2583 mm | 101.693 in  
**Weight, gross**      40.8 kg | 89.948 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

# 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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