

# R2HH-6533C-R5



10-port sector/multibeam antenna, 2x 694–960 sector and 8x 1695–2400 multibeam, 65° sector and 33° 4x multibeam, 5x RET with

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## OBsolete

This product was discontinued on: March 31, 2023

## General Specifications

<b>Antenna Type</b>	Multibeam
<b>Band</b>	Multiband
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<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>	8
<b>RF Connector Quantity, mid band</b>	0
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	10

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (4)   Low band (1)
<b>Power Consumption, idle state, maximum</b>	1 W

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**Power Consumption, normal conditions, maximum**

8 W

**Protocol**

3GPP/AISG 2.0 (Single RET)

## Dimensions

**Width**

350 mm | 13.78 in

**Depth**

208 mm | 8.189 in

**Length**

2438 mm | 95.984 in

**Net Weight, with installed actuator**

33.5 kg | 73.855 lb

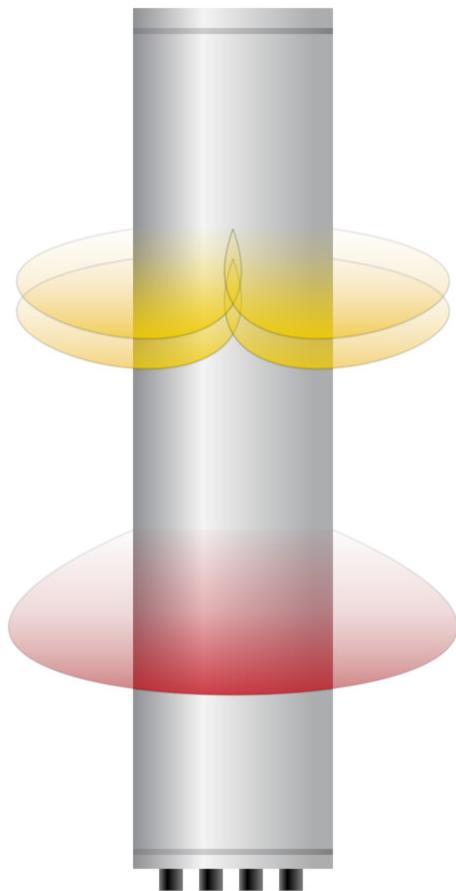
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1695-2400	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2400	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1695-2400	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY3
Y4	1695-2400	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxY4

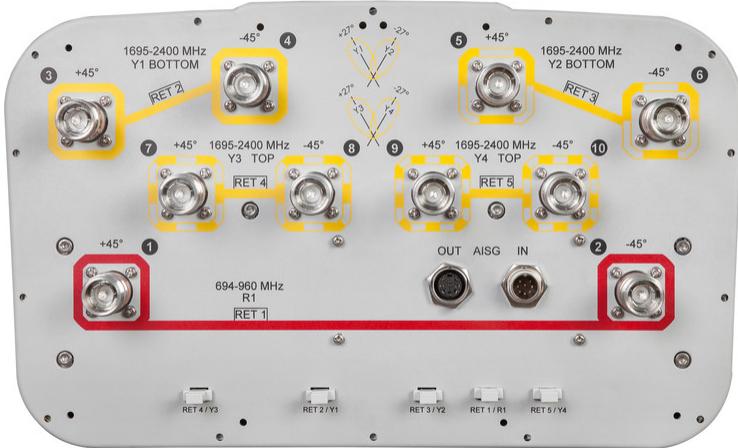
(Sizes of colored boxes are not true depictions of array sizes)

## Beams Configuration



## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2400 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,000 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	880–960	1695–1880	1850–1990	1920–2180	2300–2400
<b>Gain, dBi</b>	16	16.5	16.6	18	18.7	19.3	19.7
<b>Beam Centers, Horizontal, degrees</b>				±27	±27	±27	±27
<b>Beamwidth, Horizontal, degrees</b>	69	67	67	34	32	31	28
<b>Beamwidth, Vertical, degrees</b>	9.7	8.7	8	7.8	7.4	7	6.2
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	16	19	15	15	15	16	17
<b>Front-to-Back Ratio at 180°, dB</b>	31	34	35	30	34	36	34
<b>Isolation, Cross Polarization, dB</b>	28	28	28	25	25	25	25

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<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30	30
<b>Isolation, Beam to Beam, dB</b>				17	17	17	17
<b>VSWR   Return loss, dB</b>	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5	1.46   14.5
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	200	200	200	200

## Mechanical Specifications

<b>Mechanical Tilt Range</b>	0°-12°
<b>Wind Loading @ Velocity, frontal</b>	425.0 N @ 150 km/h (95.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	361.0 N @ 150 km/h (81.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	899.0 N @ 150 km/h (202.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	451.0 N @ 150 km/h (101.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	456 mm   17.953 in
<b>Depth, packed</b>	357 mm   14.055 in
<b>Length, packed</b>	2585 mm   101.772 in
<b>Weight, gross</b>	47.7 kg   105.16 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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-4 - 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-4

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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

<b>Product Type</b>	Downtilt mounting kit
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## General Specifications

<b>Application</b>	Outdoor
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<b>Color</b>	Silver
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## Dimensions

<b>Compatible Diameter, maximum</b>	115 mm   4.528 in
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<b>Compatible Diameter, minimum</b>	60 mm   2.362 in
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<b>Weight, net</b>	6.5 kg   14.33 lb
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## Material Specifications

<b>Material Type</b>	Galvanized steel
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## Packaging and Weights

<b>Included</b>	Brackets   Hardware
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<b>Packaging quantity</b>	1
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

