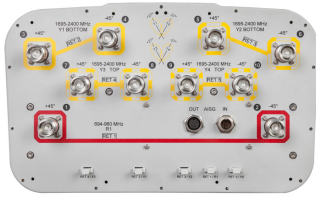


R2HH-6533C-R5



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

Antenna Type	Multibeam
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

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

R2HH-6533C-R5

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

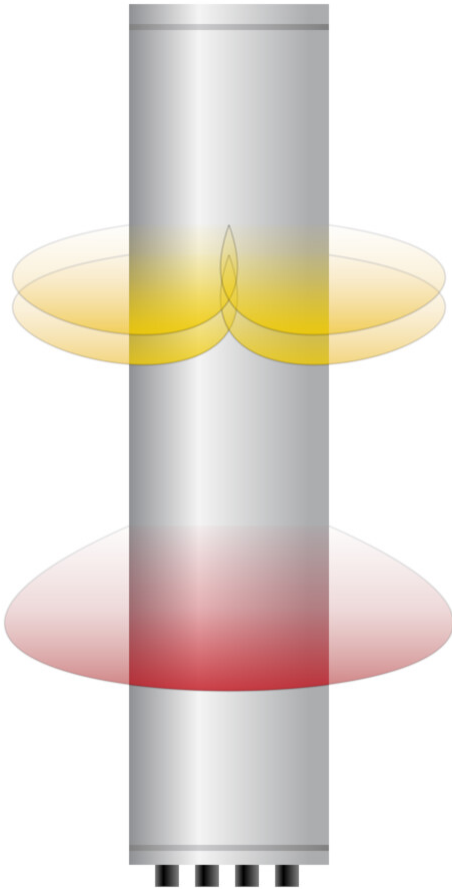


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2400	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2400	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2400	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2400	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxxY4

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

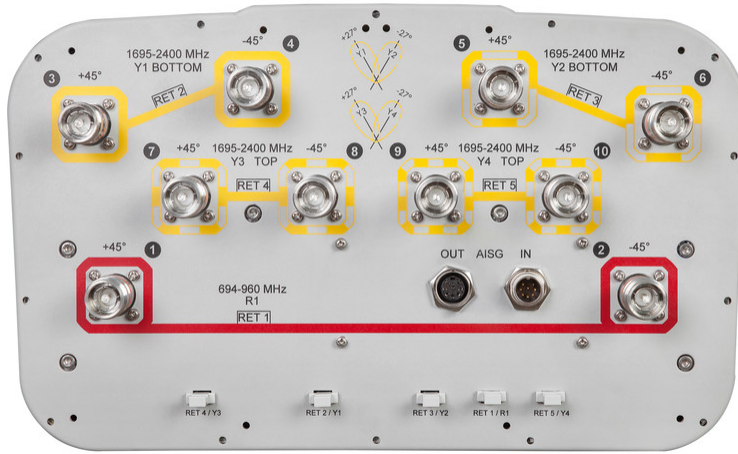
Beams Configuration

R2HH-6533C-R5



Port Configuration

R2HH-6533C-R5



Electrical Specifications

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

Electrical Specifications

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

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

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	880–960	1695–1880	1850–1990	1920–2180	2300–2400
Gain by all Beam Tilts, average, dBi	15.8	16.3	16.4	17.3	18.3	18.9	19.2
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.3	±0.3	±0.9	±0.6	±0.6	±1.1
Gain by Beam Tilt, average, dBi	2° 15.7 7° 15.9 12° 15.8	2° 16.2 7° 16.4 12° 16.3	2° 16.2 7° 16.5 12° 16.4	2° 17.2 7° 17.4 12° 17.2	2° 18.1 7° 18.4 12° 18.2	2° 18.7 7° 19.0 12° 18.8	2° 19.3 7° 19.4 12° 18.7
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.4	±1.4	±1.3	±1.3	±1.9	±1.1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.5	±0.4	±0.3	±0.4	±0.2
USLS, beampeak to 20° above beampeak, dB	16	18	15	15	15	16	17
Front-to-Back Total Power at 180° ± 30°, dB	25	24	25	23	28	29	29
CPR at Boresight, dB	14	15	16	17	18	20	16
CPR at Sector, dB	11	10	9				
CPR at 10 dB Horizontal Beamwidth, dB				5	8	10	7

Mechanical Specifications

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

Packaging and Weights

Width, packed	456 mm 17.953 in
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R2HH-6533C-R5

Depth, packed	357 mm 14.055 in
Length, packed	2585 mm 101.772 in
Weight, gross	47.7 kg 105.16 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-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



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 6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

Agency	Classification
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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

