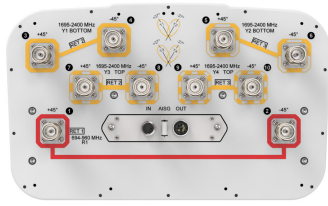


R2HH-6533C-R3-V1



10-port sector/multibeam antenna, 2x 694–960 sector and 8x 1695–2400 multibeam, 65° sector and 33° 4x multibeam, 3x RET

- 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

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
Radome Material	Fiberglass, UV resistant
Radiator Material	Copper Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	8
RF Connector Quantity, mid band	0
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

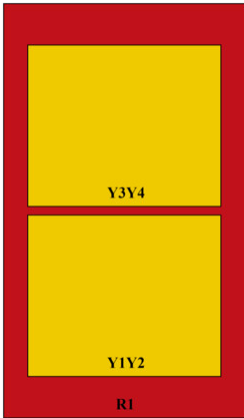
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	High band (2) Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

R2HH-6533C-R3-V1

Width	350 mm 13.78 in
Depth	208 mm 8.189 in
Length	2438 mm 95.984 in
Net Weight, antenna only	30.3 kg 66.8 lb

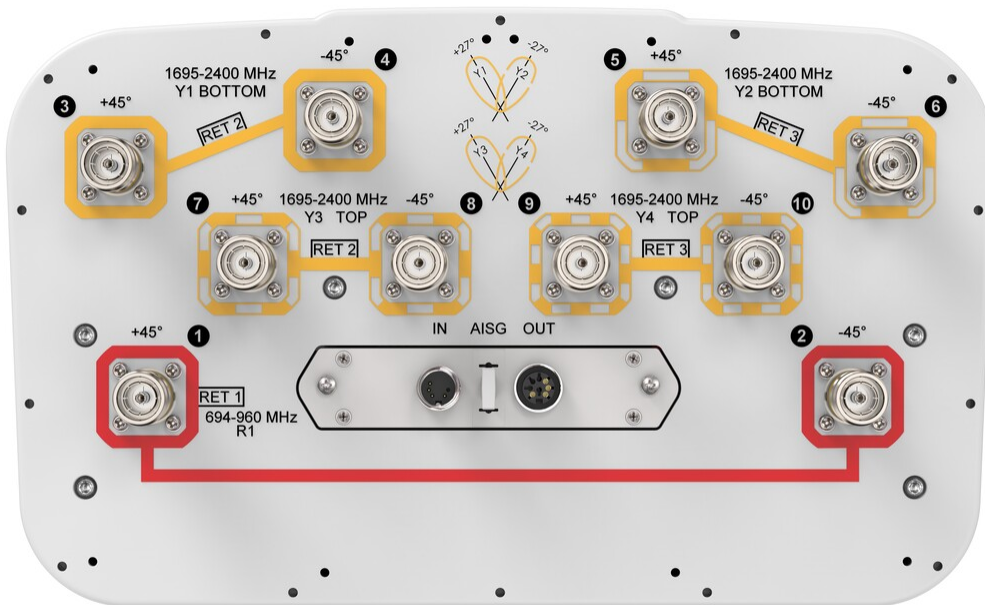
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	694-960	1 - 2	1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2400	3 - 4	2	CPxxxxxxxxxxxxxxxxY1
Y3	1695-2400	7 - 8		
Y2	1695-2400	5 - 6	3	CPxxxxxxxxxxxxxxxxY2
Y4	1695-2400	9 - 10		

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

Port Configuration



R2HH-6533C-R3-V1

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2400 MHz 694 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	694–790	790–890	880–960	1695–1880	1850–1990	1920–2180	2300–2400
Gain, dBi	16.1	16.6	16.8	17.5	18.5	19.2	19.4
Beamwidth, Horizontal, degrees	71	68	67	34	32	32	30
Beamwidth, Vertical, degrees	9.6	8.6	8	8.1	7.4	7	6.3
Beam Tilt, degrees	2–10	2–10	2–10	2–10	2–10	2–10	2–10
USLS (First Lobe), dB	17	20	19	16	16	18	19
Front-to-Back Ratio at 180°, dB	29	30	29	30	30	31	36
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30	30
Isolation, Beam to Beam, dB				16	16	16	16
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	200	200	200	200

Mechanical Specifications

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
Depth, packed	357 mm 14.055 in
Length, packed	2585 mm 101.772 in

R2HH-6533C-R3-V1

Weight, gross

44 kg | 97.003 lb

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



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