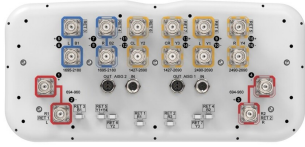


RRZZHHTT-65BR7N43F



16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695–2180 and 4x 2490–2690 MHz, 65° HPBW, 7x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Retractable tilt indicator rods
- Antenna shape optimized for wind load reduction

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light Gray (RAL 7035)
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

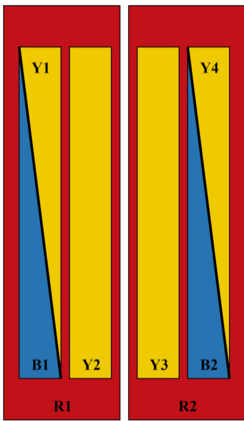
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (5)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

RRZZHHTT-65BR7N43F

Dimensions

Width	430 mm 16.929 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, antenna only	37.5 kg 82.673 lb

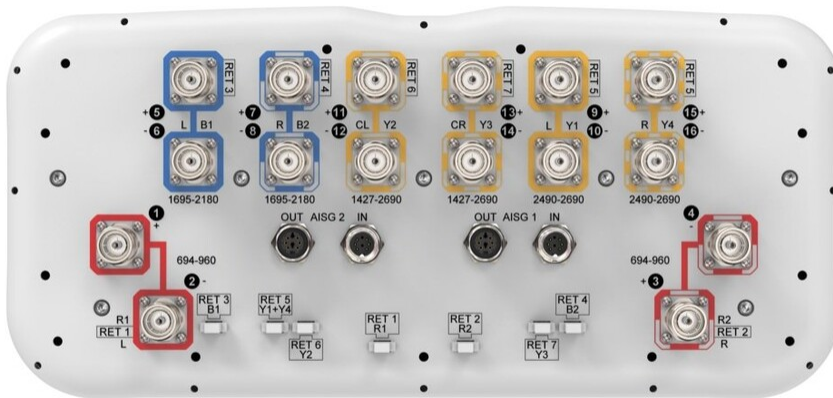
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxxxY1
Y4	2490-2690	15 - 16			
Y2	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxxxY3

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
------------------	--------

RRZZHHTT-65BR7N43F

Operating Frequency Band	1427 – 2690 MHz 1695 – 2180 MHz 2490 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y4
Frequency Band, MHz	698–806	790–896	890–960	1695–1990	1920–2180	2490–2690
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	9,10,15,16
Beamwidth, Horizontal, degrees	66	59	57	70	65	60
Beamwidth, Vertical, degrees	10.4	9.4	8.7	5.6	5.3	4.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	16	14	16	18	21
Front-to-Back Ratio at 180°, dB	31	32	32	32	30	31
Front-to-Back Total Power at 180° ± 30°, dB	23	22	21	25	25	22
CPR at Boresight, dB	20	19	18	21	23	22
Isolation, Cross Polarization, dB	27	27	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27	27	27
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	150

Electrical Specifications, BASTA

	698–806	790–896	890–960	1695–1990	1920–2180	2490–2690
Frequency Band, MHz	698–806	790–896	890–960	1695–1990	1920–2180	2490–2690
Gain by all Beam Tilts, average, dBi	14.3	14.8	15	16.6	17.1	17.3
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.5	±0.7	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±11.4	±5.9	±5.5	±6.2	±10.5	±6.1
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.7	±0.6	±0.4	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	18	16	14	13	15	16

RRZZHHTT-65BR7N43F

Electrical Specifications

	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
RF Port	11,12,13,14	11,12,13,14	11,12,13,14	11,12,13,14	11,12,13,14
Beamwidth, Horizontal, degrees	69	66	64	63	58
Beamwidth, Vertical, degrees	6.8	5.6	5.2	4.7	4.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	15	15	18	16
Front-to-Back Ratio at 180°, dB	32	35	33	33	34
Front-to-Back Total Power at 180° ± 30°, dB	21	27	27	27	27
CPR at Boresight, dB	20	19	19	21	18
Isolation, Cross Polarization, dB	26	26	26	26	26
Isolation, Inter-band, dB	27	27	27	27	27
VSWR Return loss, dB	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	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Electrical Specifications, BASTA

	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
Frequency Band, MHz	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
Gain by all Beam Tilts, average, dBi	15.5	16.6	17.4	17.8	17.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.6	±0.7	±0.4	±0.6
Beamwidth, Horizontal Tolerance, degrees	±10.3	±7.5	±7.9	±6.4	±5.3
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.5	±0.5	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	15	15	15	14

Mechanical Specifications

Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)

RRZZHHTT-65BR7N43F

Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2272 mm 89.449 in
Weight, gross	49.7 kg 109.57 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



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 www.commscope.com/ProductCompliance
ROHS	Compliant

BSAMNT-3

