RRZZHHTT65AR6MR

16-port sector antenna, 4x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 6x RET

- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- New endcap designs provide improved wind loading performance
- All internal RET actuators are connected in “Cascaded MRET” configuration

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 | 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, mid band	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

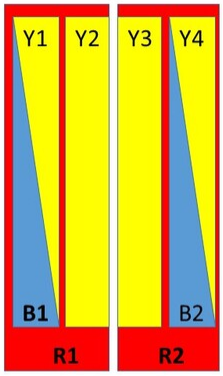
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) | Mid band (4)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Multi-RET)

Dimensions

RRZZHHTT65AR6MR

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	1499 mm | 59.016 in
Net Weight, antenna only	33.9 kg | 74.737 lb

Array Layout



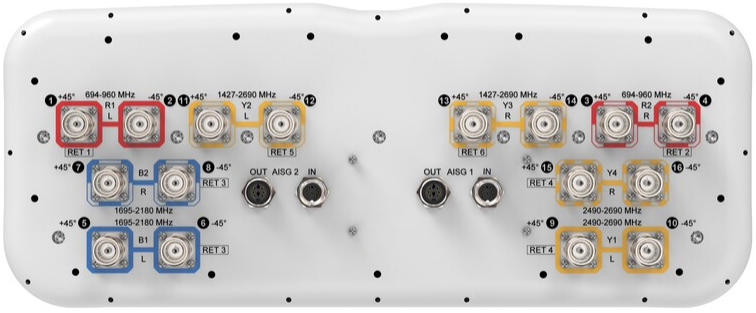
Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxR2
B1	1695-2180	5-6	3	CPxxxxxxxxxxxxxxB1
B2	1695-2180	7-8		
Y1	2490-2690	9-10	4	CPxxxxxxxxxxxxxxY1
Y4	2490-2690	15-16		
Y2	1427-2690	11-12	5	CPxxxxxxxxxxxxxxY2
Y3	1427-2690	13-14	6	CPxxxxxxxxxxxxxxY3

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

Left Right

Bottom

Port Configuration



Electrical Specifications

RRZZHHTT65AR6MR

Impedance	50 ohm
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	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–2180**	**2490–2690**	**1427–1518**	**1695–2180**	**2300–2690**
RF Port	1-4	1-4	1-4	5-8	9,10,15,16	11-14	11-14	11-14
Gain, dBi	13.2	13.5	13.7	16.9	17.8	15.3	17.4	18.3
Beamwidth, Horizontal, degrees	70	68	64	68	56	69	63	58
Beamwidth, Vertical, degrees	16.8	14.9	13.9	6.6	5.2	8.8	6.8	5.2
Beam Tilt, degrees	2–16	2–16	2–16	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	15	17	19	18	17	16	20
Front-to-Back Ratio at 180°, dB	30	28	28	31	29	33	32	34
Isolation, Cross Polarization, dB	27	27	27	27	27	26	26	26
Isolation, Inter-band, dB	27	27	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	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	300	250	150	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	**694–790**	**790–890**	**890–960**	**1695–2180**	**2490–2690**	**1427–1518**	**1695–2180**	**2300–2690**
Gain by all Beam Tilts, average, dBi	12.9	13.1	13.4	16.3	17.3	14.9	16.5	17.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.7	±0.6	±0.9	±0.6	±0.5	±1	±0.8
Beamwidth, Horizontal Tolerance, degrees	±9.1	±7.5	±5.1	±10.8	±5	±8.7	±7.1	±8.6
Beamwidth, Vertical Tolerance, degrees	±1.1	±1.5	±1.3	±0.7	±0.2	±0.6	±0.8	±0.4
USLS, beampeak to 20° above beampeak, dB			16	12	14	14	15	16

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Front-to-Back Total Power at 180° ± 30°, dB	21	22	22	24	23	25	25	27
CPR at Boresight, dB	23	20	20	19	20	14	18	19
CPR at Sector, dB	11	10	12	7	4	8	4	5

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.47 m² | 5.059 ft²
Effective Projective Area (EPA), lateral	0.14 m² | 1.507 ft²
Wind Loading @ Velocity, frontal	503.0 N @ 150 km/h (113.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	150.0 N @ 150 km/h (33.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	604.0 N @ 150 km/h (135.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	346.0 N @ 150 km/h (77.8 lbf @ 150 km/h)
Wind Speed, maximum	288 km/h (179 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	309 mm | 12.165 in
Length, packed	1686 mm | 66.378 in
Weight, gross	47.5 kg | 104.719 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

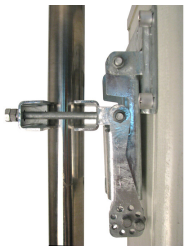
Included Products

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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

BSAMNT-3