RRCZV4-65B-R8

16-port sector antenna, 4x 694-960, 2x 790-960,2x 1427-2690 and 8x 1695-2690 MHz, 65° HPBW, 8xRET

- 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

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, high band	0
RF Connector Quantity, mid band	10
RF Connector Quantity, low band	6
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

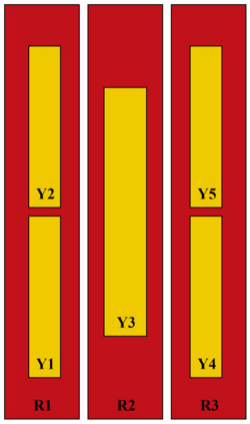
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (3) | Mid band (5)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0

RRCZV4-65B-R8

Dimensions

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	2280 mm | 89.764 in
Net Weight, antenna only	44 kg | 97.003 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	790-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxR3
Y1	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxY3
Y4	1695-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxY4
Y5	1695-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxxY5

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

Port Configuration

RRCZV4-65B-R8

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 960 MHz | 790 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1,R3	R1,R3	R1,R3	R2	R2
Frequency Band, MHz	**698–806**	**790–894**	**890–960**	**790–894**	**890–960**
RF Port	1-2,5-6	1-2,5-6	1-2,5-6	3,4	3,4
Gain at Mid Tilt, dBi	13.8	14.4	14.6	13	13
Beamwidth, Horizontal, degrees	75	74	68	71	59
Beamwidth, Vertical, degrees	9.9	8.8	8	10	9.3
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	15	14	15	16

Front-to-Back Ratio at 180°, dB	26	30	28	24	23
Front-to-Back Total Power at 180° ± 30°, dB	17	21	20	22	20
Isolation, Cross Polarization, typical, dB	25	25	25	25	25
Isolation, Inter-band, typical, dB	25	25	25	25	25
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	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	300	300

Electrical Specifications

	Y3	**Y3**	**Y3**	**Y3**	**Y3**	**Y1,Y2,Y4,Y5**	**Y1,Y2,Y4,Y5**	**Y1,Y2,Y4,Y5**	**Y1,Y2,Y4,Y5**
Frequency Band, MHz	**1427–1518**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	11,12	11,12	11,12	11,12	11,12	7-10,13-16	7-10,13-16	7-10,13-16	7-10,13-16
Gain at Mid Tilt, dBi	16.6	17.8	18.4	18.6	17.8	16	16.8	16.8	16.4
Beamwidth, Horizontal, degrees	65	53	56	61	60	56	56	61	56
Beamwidth, Vertical, degrees	7.1	5.8	5.2	4.6	4.4	8.3	7.4	6.5	6.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	17	18	18	16	16	16	18	19
Front-to-Back Ratio at 180°, dB	35	36	35	35	33	30	32	31	28
Front-to-Back Total Power at 180° ± 30°, dB	29	29	29	29	27	24	26	25	23
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	25
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	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port	250	250	250	200	200	250	250	200	200

at 50°C, maximum, watts	

Mechanical Specifications

Wind Loading @ Velocity, frontal	800.0 N @ 150 km/h (179.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	247.0 N @ 150 km/h (55.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	959.0 N @ 150 km/h (215.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	551.0 N @ 150 km/h (123.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	309 mm | 12.165 in
Length, packed	2467 mm | 97.126 in
Weight, gross	58.3 kg | 128.529 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

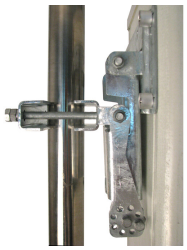
Included Products

BSAMNT-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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant