EGRZZHHTT-65A-R8

18-port sector antenna, 2x 694–862, 2x 880-960, 2x 694–960, 4x 1427–2690, 4x 1695-2180 and 4x 2490-2690 MHz, 65° HPBW, 8x 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
- 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	6
RF Connector Quantity, total	18

Remote Electrical Tilt (RET) Information

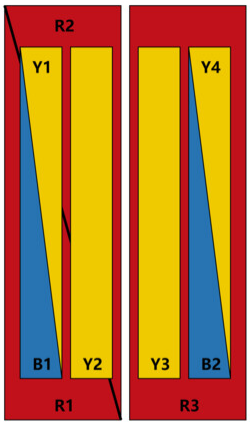
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female | 8-pin DIN Male
RET Interface, quantity	2 female | 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (3) | Mid band (5)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

EGRZZHHTT-65A-R8

Width	498 mm | 19.606 in
Depth	197 mm | 7.756 in
Length	1600 mm | 62.992 in
Net Weight, antenna only	40.4 kg | 89.067 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-862	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	880-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
R3	694-960	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxR3
B1	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxB1
B2	1695-2180	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxY1
Y4	2490-2690	17 - 18			
Y2	1427-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1427-2690	15 - 16	8	AISG1	CPxxxxxxxxxxxxxxY3

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

Port Configuration

Electrical Specifications

EGRZZHHTT-65A-R8

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 694 – 862 MHz | 694 – 960 MHz | 880 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

	R1	R1	R2	R3	R3	R3
Frequency Band, MHz	**698–806**	**790–862**	**880–960**	**698–806**	**790–894**	**890–960**
RF Port	1,2	1,2	3,4	5,6	5,6	5,6
Gain at Mid Tilt, dBi	13.4	13.6	13.8	13.9	14.3	14.4
Beamwidth, Horizontal, degrees	71	67	65	71	67	65
Beamwidth, Vertical, degrees	13.5	12.7	11.7	13.8	12.7	11.6
Beam Tilt, degrees	3–16	3–16	3–16	3–16	3–16	3–16
USLS (First Lobe), dB	16	15	13	16	17	16
Front-to-Back Ratio at 180°, dB	30	30	28	30	27	28
Front-to-Back Total Power at 180° ± 30°, dB	20	20	20	19	20	21
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	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
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	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	**698–806**	**790–862**	**880–960**	**698–806**	**790–894**	**890–960**
Gain by all Beam Tilts, average, dBi	13.3	13.5	13.6	13.8	14.2	14.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.4	±0.3	±0.5	±0.4
Beamwidth, Horizontal Tolerance, degrees	±10	±5	±3	±7	±4	±5
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.6	±1	±1	±0.9	±0.9

USLS, beampeak to 20° above beampeak, dB	16	15	13		16	15		
CPR at Boresight, dB	20	19	18	20	20	18		
CPR at Sector, dB	12	9	11	12	10	12		

Electrical Specifications

	B1,B2	**B1,B2**	**Y1,Y4**	**Y2,Y3**	**Y2,Y3**	**Y2,Y3**	**Y2,Y3**	**Y2,Y3**
Frequency Band, MHz	**1695–1995**	**1920–2180**	**2490–2690**	**1427–1518**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
RF Port	7-10	7-10	11,12,17,18	13-16	13-16	13-16	13-16	13-16
Gain at Mid Tilt, dBi	16.7	17.5	17.8	15.4	16.9	17.7	18.2	18.1
Beamwidth, Horizontal, degrees	69	63	56	73	64	60	58	57
Beamwidth, Vertical, degrees	6.1	5.6	4.6	8	6.4	5.7	4.9	4.6
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	17	17	16	16	16	16
Front-to-Back Ratio at 180°, dB	32	31	31	31	32	32	31	30
Front-to-Back Total Power at 180° ± 30°, dB	26	25	26	24	26	26	26	26
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
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	250	250	150	250	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**1695–1995**	**1920–2180**	**2490–2690**	**1427–1518**	**1695–1995**	**1920–2300**	**2300–2500**	**2490–2690**
Gain by all Beam Tilts, average, dBi	16.6	17.3	17.6	15.4	16.8	17.5	17.9	17.8
Gain by all Beam Tilts Tolerance, dB	±0.9	±0.5	±0.5	±0.3	±0.6	±0.5	±0.5	±0.9
Beamwidth, Horizontal Tolerance, degrees	±7	±7	±4	±8	±5	±3	±6	±8
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.2	±0.3	±0.5	±0.5	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	14	14	12	13	15	15	16	16

CPR at Boresight, dB	22	22	17	15	21	19	19	19
CPR at Sector, dB	4	4	1	8	6	4	4	2

Mechanical Specifications

Wind Loading @ Velocity, frontal	544.0 N @ 150 km/h (122.3 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	142.0 N @ 150 km/h (31.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	723.0 N @ 150 km/h (162.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	374.0 N @ 150 km/h (84.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm | 22.244 in
Depth, packed	368 mm | 14.488 in
Length, packed	1775 mm | 69.882 in
Weight, gross	54.2 kg | 119.49 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