

# EGRZZHHTTV4-65D-R8



26-port sector antenna, 2x 694-862 (R1), 2x 880-960 (R2), 2x 694-960 (R3), 4x 1427-2690 (Y3/Y5), 4x 1695-1880 (B1-B2), 4x 2300-2690 (Y1&Y7) & 8x 1695-2690 (Y2/Y4/Y6/Y8) MHz, 65° HPBW, 8x RET.

- All Internal RET actuators are connected in “Cascaded SRET” configuration

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	20
<b>RF Connector Quantity, low band</b>	6
<b>RF Connector Quantity, total</b>	26

## Remote Electrical Tilt (RET) Information

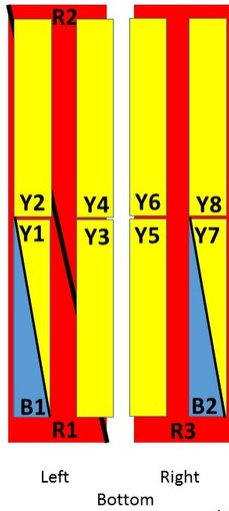
<b>RET Hardware</b>	CommRET v1   CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (5)   Low band (3)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	9 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

# EGRZZHHTTV4-65D-R8

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2688 mm   105.827 in
<b>Net Weight, without mounting kit</b>	67.6 kg   149.032 lb

## Array Layout

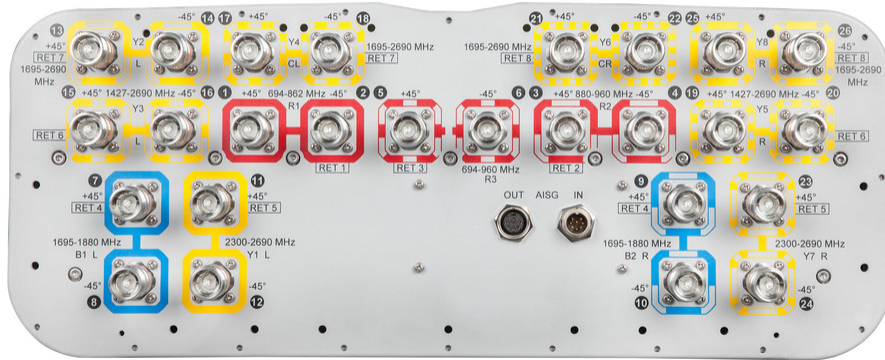


Array	Freq (MHz)	Conns	RET(SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
R3	694-960	5-6	3	CPxxxxxxxxxxxxxxxxR3
B1	1695-1880	7-8	4	CPxxxxxxxxxxxxxxxxB1
B2	1695-1880	9-10		
Y1	2300-2690	11-12	5	CPxxxxxxxxxxxxxxxxY1
Y7	2300-2690	23-24		
Y3	1427-2690	15-16	6	CPxxxxxxxxxxxxxxxxY3
Y5	1427-2690	19-20		
Y2	1695-2690	13-14	7	CPxxxxxxxxxxxxxxxxY2
Y4	1695-2690	17-18		
Y6	1695-2690	21-22	8	CPxxxxxxxxxxxxxxxxY6
Y8	1695-2690	25-26		

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

## Port Configuration

# EGRZZHHTTV4-65D-R8



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1427 – 2690 MHz   1695 – 1880 MHz   1695 – 2690 MHz   2300 – 2690 MHz   694 – 862 MHz   694 – 960 MHz   880 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

	R1	R2	R3	B1-B2	Y1&Y7	Y1&Y7	Y2-Y6/Y8	Y2-Y6/Y8	Y3/Y5
<b>Frequency Band, MHz</b>	<b>694-862</b>	<b>880-960</b>	<b>694-960</b>	<b>1695-1880</b>	<b>2300-2400</b>	<b>2490-2690</b>	<b>1695-2180</b>	<b>2490-2690</b>	<b>1427-1518</b>
<b>Gain, dBi</b>	15.4	15.7	16.2	15.7	17.4	17.6	17	17.9	15.4
<b>Beamwidth, Horizontal, degrees</b>	68	64	67	69	58	55	64	57	65
<b>Beamwidth, Vertical, degrees</b>	8.5	7.3	8.1	7.3	5.8	5.3	7.1	5.3	9.5
<b>Beam Tilt, degrees</b>	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12	2-12
<b>USLS (First Lobe), dB</b>	18	21	18	17	17	19	17	21	20
<b>Front-to-Back Ratio at 180°, dB</b>	31	27	28	32	29	29	33	32	35
<b>Isolation, Cross Polarization, dB</b>	28	28	28	25	25	25	25	25	25

# EGRZZHHTTV4-65D-R8

<b>Isolation, Inter-band, dB</b>	28	28	28	25	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50° C, maximum, watts</b>	200	200	200	200	200	150	200	200	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–862</b>	<b>880–960</b>	<b>694–960</b>	<b>1695–1880</b>	<b>2300–2400</b>	<b>2490–2690</b>	<b>1695–2180</b>	<b>2490–2690</b>	<b>1427–1518</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.1	15.3	15.8	15.3	17	17.4	16.1	17.4	15.1
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.4	±0.4	±0.6	±0.5	±0.4	±0.4	±1.1	±0.7	±0.4
<b>Gain by Beam Tilt, average, dBi</b>	2° 15.0 8° 15.2 14° 14.9	2° 15.2 8° 15.5 14° 15.0	2° 15.7 8° 15.9 14° 15.5	2° 15.2 7° 15.4 12° 15.1	2° 16.7 7° 17.0 12° 17.1	2° 17.0 7° 17.6 12° 17.3	2° 16.0 7° 16.2 12° 16.0	2° 17.1 7° 17.6 12° 17.2	2° 14.9 7° 15.1 12° 15.3
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±6.7	±4.0	±6.2	±6.1	±3.1	±6.4	±8.2	±6	±8.5
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.8	±0.4	±1.1	±0.7	±0.3	±0.3	±1	±0.3	±0.6
<b>USLS, beampeak to 20° above beampeak, dB</b>	14	14	16	14	14	14	16	16	17
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	21	22	22	25	23	24	26	26	25
<b>CPR at Boresight, dB</b>	19	17	18	16	18	20	18	19	17
<b>CPR at Sector, dB</b>	8	12	11	8	6	5	6	3	3

## Mechanical Specifications

<b>Mechanical Tilt Range</b>	2°–12°
<b>Wind Loading @ Velocity, frontal</b>	1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in

# EGRZZHHTTV4-65D-R8

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**Length, packed** 2935 mm | 115.551 in

**Weight, gross** 88.6 kg | 195.329 lb

## Regulatory Compliance/Certifications

### Agency

CHINA-ROHS

ISO 9001:2015

ROHS

UK-ROHS

### Classification

Above maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant/Exempted

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.
- BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

## \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance