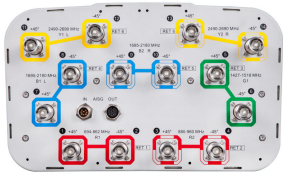


# EGYHHTT-65B-R6



14-port, 1.8m, multiband antenna, RF port assignments are as follows: R1 = 694–862, R2 = 880–960, G1 = 1427-1518, B1 & B2 = 1695–2180 and Y1 & Y2 = 2490-2690 MHz, 65° horizontal beamwidth, 6x Internal RET. Y1 & Y2 share a common RET

- Electrical tilt settings applicable to RF Ports R1, R2, G1, B1 & B2 can be set independently (See Array Layout and RET Table below)
- A common electrical tilt setting is shared by RF Ports Y1 & Y2
- 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>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>	10
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	14

## Remote Electrical Tilt (RET) Information

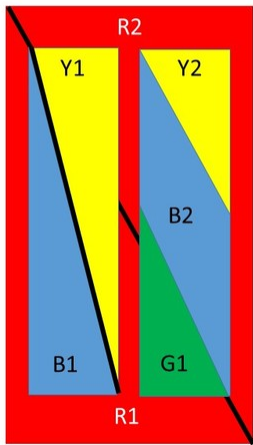
<b>RET Hardware</b>	CommRET v1
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Power Consumption, normal conditions, maximum</b>	8 W
<b>Protocol</b>	3GPP/AISG 2.0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

# EGYHHTT-65B-R6

## Dimensions

<b>Width</b>	350 mm   13.78 in
<b>Depth</b>	208 mm   8.189 in
<b>Length</b>	1828 mm   71.969 in
<b>Net Weight, without mounting kit</b>	33 kg   72.752 lb

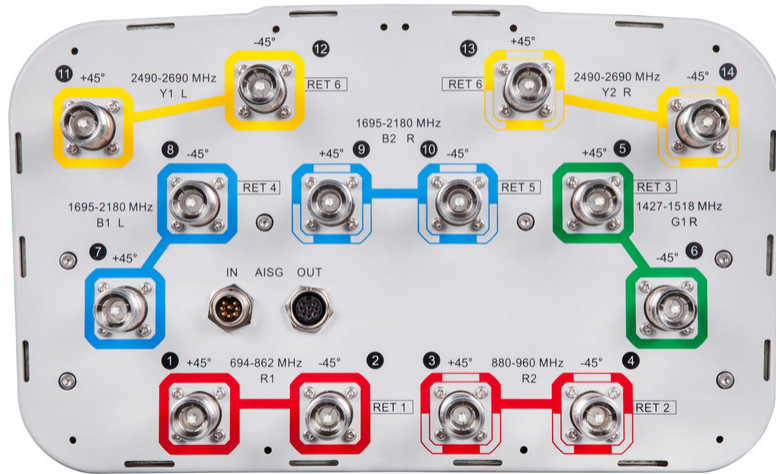
## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-862	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	880-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
G1	1427-1518	5-6	3	CPxxxxxxxxxxxxxxxxG1
B1	1695-2180	7-8	4	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	9-10	5	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	11-12	6	CPxxxxxxxxxxxxxxxxY1
Y2	2490-2690	13-14		

## Port Configuration

# EGYHHTT-65B-R6



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1427 – 1518 MHz   1695 – 2180 MHz   2490 – 2690 MHz   694 – 862 MHz   880 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W @ 50 °C

## Electrical Specifications

	R1	R2	G1	B1	B2	Y1	Y2
<b>Frequency Band, MHz</b>	<b>694–862</b>	<b>880–960</b>	<b>1427–1518</b>	<b>1695–2180</b>	<b>1695–2180</b>	<b>2490–2690</b>	<b>2490–2690</b>
<b>Gain, dBi</b>	14.8	15.1	16.3	17.9	17.2	17.4	17.9
<b>Beamwidth, Horizontal, degrees</b>	67	63	64	61	61	62	60
<b>Beamwidth, Vertical, degrees</b>	11.9	10.1	7	5.2	5.2	4.1	4.1
<b>Beam Tilt, degrees</b>	2–14	2–14	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	14	17	19	19	18	21	21
<b>Front-to-Back Ratio at 180°, dB</b>	30	31	33	31	34	29	33
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28	28	28	28

# EGYHHTT-65B-R6

<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30	30
<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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port, maximum, watts</b>	350	350	300	300	300	250	250

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–862</b>	<b>880–960</b>	<b>1427–1518</b>	<b>1695–2180</b>	<b>1695–2180</b>	<b>2490–2690</b>	<b>2490–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.5	14.9	16	17.4	16.8	17.1	17.7
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.4	±0.6	±0.8	±0.7	±0.5	±0.3
<b>Gain by Beam Tilt, average, dBi</b>	2° 14.5 8° 14.5 14° 14.4	2° 14.9 8° 14.9 14° 14.7	2° 15.8 7° 16.0 12° 16.0	2° 17.3 7° 17.5 12° 17.3	2° 16.7 7° 16.9 12° 16.6	2° 17.2 7° 17.3 12° 16.7	2° 17.7 7° 17.9 12° 17.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.8	±2	±7.2	±3.5	±3.8	±3.5	±4.0
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.4	±0.4	±0.3	±0.5	±0.6	±0.3	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	14	17	18	16	15	16	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	25	23	24	26	28	24	26
<b>CPR at Boresight, dB</b>	18	20	14	21	21	20	22
<b>CPR at Sector, dB</b>	10	9	6	8	6	7	9

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	301.0 N @ 150 km/h (67.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	254.0 N @ 150 km/h (57.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	638.0 N @ 150 km/h (143.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	456 mm   17.953 in
<b>Depth, packed</b>	357 mm   14.055 in
<b>Length, packed</b>	1975 mm   77.756 in
<b>Weight, gross</b>	46.5 kg   102.515 lb

# EGYHHTT-65B-R6

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## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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

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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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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