

# FFHHTTVV-65A-R8



16-port sector antenna, 4x 617-894, 4x1695-2200, 4x2490-2690 and 4x1695-2690 MHz, 65° HPBW, 8x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Antenna shape optimized for wind load reduction

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<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>	12
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	16

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (6)   Low band (2)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

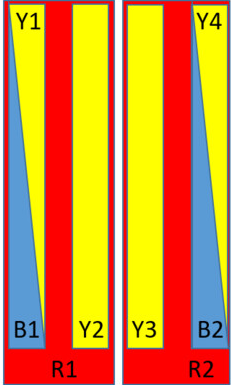
## Dimensions

<b>Width</b>	498 mm   19.606 in
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**Depth** 197 mm | 7.756 in  
**Length** 1499 mm | 59.016 in  
**Net Weight, antenna only** 35 kg | 77.162 lb

## Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	617-894	1-2	1	CPxxxxxxxxxxxxR1
R2	617-894	3-4	2	CPxxxxxxxxxxxxR2
B1	1695-2200	5-6	3	CPxxxxxxxxxxxxB1
B2	1695-2200	7-8	4	CPxxxxxxxxxxxxB2
Y1	2490-2690	9-10	5	CPxxxxxxxxxxxxY1
Y2	1695-2690	11-12	6	CPxxxxxxxxxxxxY2
Y3	1695-2690	13-14	7	CPxxxxxxxxxxxxY3
Y4	2490-2690	15-16	8	CPxxxxxxxxxxxxY4

Left Bottom Right

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

## Port Configuration



## Electrical Specifications

**Impedance** 50 ohm  
**Operating Frequency Band** 1695 – 2200 MHz | 1695 – 2690 MHz | 2490 – 2690 MHz | 617 – 894 MHz  
**Polarization** ±45°

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Total Input Power, maximum

1,400 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y4	Y2,Y3	Y2,Y3	Y2,Y3
<b>Frequency Band, MHz</b>	<b>617-698</b>	<b>698-894</b>	<b>1695-1990</b>	<b>1920-2200</b>	<b>2490-2690</b>	<b>1695-1990</b>	<b>1920-2200</b>	<b>2300-2690</b>
<b>RF Port</b>	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	9,10,15,16	11,12,13,14	11,12,13,14	11,12,13,14
<b>Gain, dBi</b>	12.7	13.3	16.2	16.5	16.7	16.5	17.4	17.4
<b>Beamwidth, Horizontal, degrees</b>	71	60	65	63	55	60	58	55
<b>Beamwidth, Vertical, degrees</b>	18.1	15.4	6.2	5.8	5	6.5	6	5.2
<b>Beam Tilt, degrees</b>	4-18	4-18	2-12	2-12	2-12	2-12	2-12	2-12
<b>USLS (First Lobe), dB</b>	18	17	15	16	20	17	19	18
<b>Front-to-Back Ratio at 180°, dB</b>	32	30	32	32	26	33	35	33
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200	200	200	200	200

## Electrical Specifications, BASTA

	617-698	698-894	1695-1990	1920-2200	2490-2690	1695-1990	1920-2200	2300-2690
<b>Frequency Band, MHz</b>	<b>617-698</b>	<b>698-894</b>	<b>1695-1990</b>	<b>1920-2200</b>	<b>2490-2690</b>	<b>1695-1990</b>	<b>1920-2200</b>	<b>2300-2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	12.3	12.8	15.7	16.2	16	16.1	16.9	17
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.8	±0.7	±0.5	±0.8	±0.8	±0.6	±0.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±9	±9	±6	±6	±5	±5	±6	±8
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.6	±2.1	±0.4	±0.4	±0.3	±0.5	±0.5	±0.4
<b>USLS, beampeak to 20° above beampeak, dB</b>			13	14	13	15	15	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	21	23	23	19	28	28	28
<b>CPR at Boresight, dB</b>	16	16	20	21	16	17	21	19
<b>CPR at Sector, dB</b>	8	7	5	6	4	8	9	6

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## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	510.0 N @ 150 km/h (114.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	133.0 N @ 150 km/h (29.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	351.0 N @ 150 km/h (78.9 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
<b>Length, packed</b>	1686 mm   66.378 in
<b>Weight, gross</b>	47.9 kg   105.601 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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