

# FFVV-65B-R2N23



8-port sector antenna, 4x 617-894 and 4x 1695-2690 MHz, 65° HPBW, 2x RET

- Meets -153dBc 3rd order PIM for 617-894MHz & 1695-2690MHz, using 2x40W carriers
- Equivalent performance designed into a narrower antenna platform
- Improved aerodynamic design allows for reduced wind load
- Reduced weight platform allows for decreased tower loading

## 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>Radiator Material</b>	Aluminum   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, mid band</b>	4
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	8

## 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>	1 female   1 male
<b>Input Voltage</b>	10-30 Vdc
<b>Internal RET</b>	Low band (1)   Mid band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0

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## Dimensions

<b>Width</b>	579 mm   22.795 in
<b>Depth</b>	212 mm   8.346 in
<b>Length</b>	1828 mm   71.969 in
<b>Net Weight, antenna only</b>	36 kg   79.366 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxR1
R2	617-894	3 - 4			
Y1	1695-2690	5 - 6	2	AISG1	CPxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8			

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

## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   617 – 894 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
<b>Frequency Band, MHz</b>	<b>617-698</b>	<b>698-894</b>	<b>1695-1880</b>	<b>1850-1990</b>	<b>1920-2200</b>	<b>2300-2500</b>	<b>2500-2690</b>
<b>RF Port</b>	1-4	1-4	5-8	5-8	5-8	5-8	5-8
<b>Gain, dBi</b>	14.2	15.3	17.7	18	18.2	18.8	19.3
<b>Beamwidth, Horizontal, degrees</b>	69	60	65	63	63	63	55
<b>Beamwidth, Vertical, degrees</b>	15	12.6	5.5	5.3	5.1	4.4	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>	15	15	18	16	17	19	18
<b>Front-to-Back Ratio at 180°, dB</b>	28	30	34	38	37	32	32
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	21	22	28	30	29	26	26

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<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	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
<b>PIM, 3rd Order, 2 x 40 W, dBc</b>	-153	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200	200	200	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>617-698</b>	<b>698-894</b>	<b>1695-1880</b>	<b>1850-1990</b>	<b>1920-2200</b>	<b>2300-2500</b>	<b>2500-2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	13.9	14.5	17.4	17.6	17.9	18.4	18.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.9	±0.5	±0.4	±0.5	±0.6	±0.5
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±8	±7	±4	±4	±9	±7	±9
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.4	±1.7	±0.5	±0.4	±0.5	±0.4	±0.3
<b>CPR at Boresight, dB</b>	16	15	19	21	23	17	17
<b>CPR at Sector, dB</b>	8	6	6	7	7	5	7

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	518.0 N @ 150 km/h (116.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	830.0 N @ 150 km/h (186.6 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	526.0 N @ 150 km/h (118.2 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	682 mm   26.85 in
<b>Depth, packed</b>	319 mm   12.559 in
<b>Length, packed</b>	1952 mm   76.85 in
<b>Weight, gross</b>	51 kg   112.436 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value

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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



## 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.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# 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
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