

# RRZZ-33D-R4



8-port multiband sector antenna, 4x 694-960 and 4 x 1427-2690 MHz, 33° HPBW, 4x RET

- Retractable tilt indicator rods
- 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, 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 (2)   Mid band (2)
<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 (Single RET)

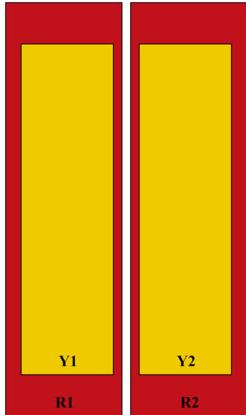
## Dimensions

<b>Width</b>	749 mm   29.488 in
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<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2688 mm   105.827 in
<b>Net Weight, without mounting kit</b>	67 kg   147.71 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y1	1427-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxxxY2

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

## Port Configuration



## Electrical Specifications

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

## Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1427–1518	1695–1920	1920–2180	2300–2490	2490–2690
<b>Gain, dBi</b>	17.4	18.2	18.7	19.2	20.6	21.7	22.3	22

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<b>Beamwidth, Horizontal, degrees</b>	36	32	30	36	29	26	24	21
<b>Beamwidth, Vertical, degrees</b>	8	7.2	6.6	7.1	5.9	5.3	4.7	4.4
<b>Beam Tilt, degrees</b>	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
<b>USLS (First Lobe), dB</b>	15	17	17	19	18	20	21	19
<b>Front-to-Back Ratio at 180°, dB</b>	30	35	36	37	39	40	37	35
<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>	-153	-153	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	200	200	200	200	200

## Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1427-1518	1695-1920	1920-2180	2300-2490	2490-2690
<b>Gain by all Beam Tilts, average, dBi</b>	17	17.9	18.5	18.9	20.3	21.3	21.9	21.4
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.8	±0.4	±0.4	±0.6	±0.6	±0.6	±0.5	±0.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±3.4	±1.7	±1.6	±1.6	±2	±2.1	±0.9	±1.8
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.5	±0.4	±0.2	±0.3	±0.4	±0.3	±0.2	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>	14	15	16	16	18	20	20	18
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	22	27	27	31	34	32	32	30
<b>CPR at Boresight, dB</b>	21	21	24	18	20	19	18	18
<b>CPR at 10 dB Horizontal Beamwidth, dB</b>	8	13	10	8	12	10	11	8

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	304.0 N @ 150 km/h (68.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	2,675.0 N @ 150 km/h (601.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

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## Packaging and Weights

<b>Width, packed</b>	910 mm   35.827 in
<b>Depth, packed</b>	368 mm   14.488 in
<b>Length, packed</b>	2921 mm   115 in
<b>Weight, gross</b>	93.6 kg   206.352 lb
<b>Weight, net</b>	67 kg   147.71 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



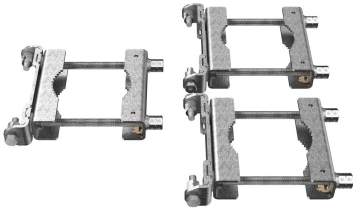
## Included Products

BSAMNT-4-F3	-	Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# BSAMNT-4-F3



Wide Profile Antenna Fixed Tilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members.

## Product Classification

**Product Type** Fixed tilt 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

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 5.6 kg | 12.346 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



