

# RRZZVV-65B-R6N47G



12-port sector antenna, 4 x 694–960, 4 x 1427–2690 and 4 x 1695–2690 MHz, 65° HPBW, 6x RET

- Includes integrated GPS (APS-XT-GPS)
- SEED® antenna providing high gain and improved efficiency
- High radiation and pattern efficiency for improved coverage area, capacity or reduced power consumption for a given area
- Reduces the amount of aluminum used to minimize CO2 release
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- Retractable tilt indicator rods

## 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
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	12

## 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>	Low band (2)   Mid band (4)
<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>	468 mm   18.425 in
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<b>Depth</b>	228 mm   8.976 in
<b>Length</b>	2100 mm   82.677 in
<b>Net Weight, without mounting kit</b>	33 kg   72.752 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1or2	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1or2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1or2	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1or2	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	9 - 10	5	AISG1or2	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	6	AISG1or2	CPxxxxxxxxxxxxxxxxY4

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

## Port Configuration



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Logo Image



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1427 – 2690 MHz   1695 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,800 W @ 50 °C

## Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>790–894</b>	<b>890–960</b>	<b>1427–1518</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>RF Port</b>	1-4	1-4	1-4	7-10	7-10	7-10	7-10	7-10
<b>Gain at Mid Tilt, dBi</b>	15.4	15.9	16	17.3	18.4	19.1	19.8	20.4
<b>Beamwidth, Horizontal, degrees</b>	64	58	57	63	71	66	60	53
<b>Beamwidth, Vertical, degrees</b>	11	10.1	9.2	7.3	5.8	5.2	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>	18	17	15	15	17	16	21	18
<b>Front-to-Back Ratio at 180°, dB</b>	29	29	29	30	40	41	38	41
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	21	22	22	29	32	33	34
<b>CPR at Boresight, dB</b>	21	22	23	23	23	19	17	19
<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

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<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	250	250	250	200	200

## Electrical Specifications

	<b>Y1,Y4</b>	<b>Y1,Y4</b>	<b>Y1,Y4</b>	<b>Y1,Y4</b>
<b>Frequency Band, MHz</b>	<b>1695–1995</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>RF Port</b>	5,6,11,12	5,6,11,12	5,6,11,12	5,6,11,12
<b>Gain at Mid Tilt, dBi</b>	18.1	18.9	19.6	20.2
<b>Beamwidth, Horizontal, degrees</b>	74	68	63	56
<b>Beamwidth, Vertical, degrees</b>	5.9	5.3	4.7	4.4
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	17	16	20	20
<b>Front-to-Back Ratio at 180°, dB</b>	34	36	36	40
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	27	29	26	27
<b>CPR at Boresight, dB</b>	22	22	18	18
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25
<b>Isolation, Inter-band, dB</b>	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
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	200	200

## Mechanical Specifications

<b>BASTA Version, mechanical</b>	BASTA v12
<b>Wind Loading @ Velocity, frontal</b>	415.0 N @ 150 km/h (93.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	357.0 N @ 150 km/h (80.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	740.0 N @ 150 km/h (166.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	442.0 N @ 150 km/h (99.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	566 mm   22.283 in
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<b>Depth, packed</b>	380 mm   14.961 in
<b>Length, packed</b>	2332 mm   91.811 in
<b>Weight, gross</b>	46 kg   101.413 lb

## Regulatory Compliance/Certifications

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

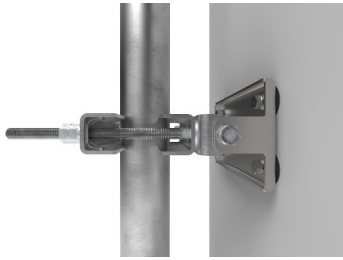
## Included Products

BSAMNT-2F	-	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

## 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

**Weight, net** 3.8 kg | 8.378 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 4 kg | 8.818 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.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-2F

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