

# RRZZ-65A-R4-V2

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



- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

## OBSOLETE

This product was discontinued on: **March 31, 2023**

### Replaced By:

RRZZ-65A-R4

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## 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>Radiator Material</b>	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, high 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>	2 female   2 male

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<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (2)   Low band (2)
<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)

## Dimensions

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	1499 mm   59.016 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	694-960	1-2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1427-2690	5-6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxxxxxY2

Left      Right  
Bottom

(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>	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	2300–2500	2500–2690
<b>Gain, dBi</b>	13.5	13.9	13.9	15.4	16.7	17.1	17.5	17.2
<b>Beamwidth, Horizontal, degrees</b>	68	68	63	65	58	61	61	65
<b>Beamwidth, Vertical, degrees</b>	16.2	14.3	13	9.2	7.7	7	5.9	5.5
<b>Beam Tilt, degrees</b>	2–16	2–16	2–16	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	18	17	18	17	18	22	22
<b>Front-to-Back Ratio at 180°, dB</b>	31	31	32	35	35	37	33	32
<b>Isolation, Cross Polarization, dB</b>	28	28	28	26	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	27	28	28	28	28
<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>	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	250	250	250	200	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>694–790</b>	<b>790–890</b>	<b>890–960</b>	<b>1427–1518</b>	<b>1695–1920</b>	<b>1920–2180</b>	<b>2300–2500</b>	<b>2500–2690</b>
<b>Gain by all Beam Tilts, average, dBi</b>	13.1	13.4	13.6	15	16.3	16.7	17.2	16.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.7	±0.6	±0.6	±0.7	±0.8	±0.5	±0.5	±0.7
<b>Gain by Beam Tilt, average, dBi</b>	2°   13.2 10°   13.1 18°   12.9	2°   13.4 10°   13.4 18°   13.1	2°   13.7 10°   13.7 18°   13.2	2°   15.1 7°   15.1 12°   14.7	2°   16.5 7°   16.4 12°   15.8	2°   16.8 7°   16.9 12°   16.3	2°   17.2 7°   17.4 12°   16.8	2°   16.8 7°   17.2 12°   16.2
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±5.3	±5.6	±6	±3.7	±4.4	±2.9	±6.4	±6.5
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1.5	±1.2	±1	±0.6	±0.7	±0.6	±0.4	±0.3
<b>USLS, beampeak to 20° above beampeak, dB</b>				15	15	16	15	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	20	20	22	25	29	28	27	27
<b>CPR at Boresight, dB</b>	23	21	22	19	20	20	19	18
<b>CPR at Sector, dB</b>	10	6	8	9	9	5	8	3

## Mechanical Specifications

<b>Mechanical Tilt Range</b>	0°–15°
<b>Wind Loading @ Velocity, frontal</b>	549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	608 mm   23.937 in
<b>Depth, packed</b>	352 mm   13.858 in
<b>Length, packed</b>	1682 mm   66.221 in
<b>Weight, gross</b>	45.5 kg   100.31 lb

## Regulatory Compliance/Certifications

# RRZZ-65A-R4-V2

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## Agency

CHINA-ROHS

ISO 9001:2015

ROHS

UK-ROHS



## Classification

Above maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant/Exempted

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



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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