

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

RRZZVV-65B-R6H4 12-port sector antenna, 4x 694-960, 4x 1427-2690 and 4x 1695-2690 MHz, 65° HPBW, 6x RET

#### General Specifications

Antenna Type Sector

**Band** Multiband

**Grounding Type**RF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

**Radome Material** Fiberglass, UV resistant

Radiator Material Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, high band 8

RF Connector Quantity, low band 4

RF Connector Quantity, total 12

### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 2 female | 2 male

COMMSC PE°

Input Voltage 10-30 Vdc

Internal RET High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

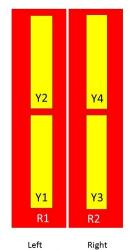
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2100 mm | 82.677 in

Net Weight, without mounting kit 41.4 kg | 91.271 lb

#### Array Layout



Arra	У	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1		694-960	1-2	1	CPxxxxxxxxxxxxxxR1
R2		694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1		1695-2690	5-6	3	CPxxxxxxxxxxxxxY1
Y2		1427-2690	7-8	4	CPxxxxxxxxxxxxxY2
Y3		1695-2690	9-10	5	CPxxxxxxxxxxxxxXY3
Y4		1427-2690	11-12	6	CPxxxxxxxxxxxxY4

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

## Port Configuration

Bottom



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1427 – 2690 MHz | 1695 – 2690 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

## **Electrical Specifications**

Frequency Band, MHz	694-790	790-890	890-960	1427-1518	8 1695–1920	1920-2180	2300-2500	2500-2690
Gain, dBi	14.5	14.9	15.3	14.4	16.2	16.9	17.5	17.2
Beamwidth, Horizontal, degrees	71	66	61	67	59	60	56	60
Beamwidth, Vertical, degrees	10.8	9.6	8.8	10.9	9.2	8.3	7.1	6.7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	18	16	14	15	16	15
Front-to-Back Ratio at 180°, dB	33	31	31	33	34	34	34	31
Isolation, Cross Polarization, dB	28	28	28	26	27	27	27	27
Isolation, Inter-band, dB	28	28	28	27	28	28	28	28
VSWR   Return loss, dB	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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PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C,	300	300	300	250	250	250	200	200
maximum, watts								

## Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1427-151	8 1695-192	0 1920-218	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	14.2	14.6	14.9	13.9	15.6	16.5	17.1	16.7
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.5	±0.9	±0.4	±0.5	±0.7
Gain by Beam Tilt, average, dBi	2° 14.3 7° 14.3 12° 14.0	2° 14.6 7° 14.7 12° 14.3	2° 15.0 7° 15.0 12° 14.5	2° 13.8 7° 13.9 12° 13.8	2° 15.5 7° 15.7 12° 15.6	2° 16.3 7° 16.5 12° 16.5	2° 16.8 7° 17.2 12° 17.0	2° 16.4 7° 16.8 12° 16.7
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.6	±0.7	±0.8	±0.8	±0.6	±0.7
USLS, beampeak to 20° above beampeak, dB	17	17	16	13	12	13	14	13
Front-to-Back Total Power at 180° ± 30°, dB	21	21	22	25	29	28	27	26
CPR at Boresight, dB	21	22	22	16	18	20	18	16

#### Mechanical Specifications

Mechanical Tilt Range 0°-12°

 Wind Loading @ Velocity, frontal
 803.0 N @ 150 km/h (180.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,040.0 N @ 150 km/h (233.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 661.0 N @ 150 km/h (148.6 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

### Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 368 mm | 14.488 in

 Length, packed
 2279 mm | 89.724 in

 Weight, gross
 55.2 kg | 121.695 lb

#### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

COMMSCOPE®

ISO 9001:2015

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

ROHS

Compliant/Exempted

UK-ROHS

Compliant/Exempted





#### 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.

#### \* Footnotes

**Performance Note** 

Severe environmental conditions may degrade optimum performance

