

# 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

### 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
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)

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### Dimensions

Width	498 mm   19.606 in
Depth	197 mm   7.756 in
Length	1848 mm   72.756 in
Net Weight, without mounting kit	37.5 kg   82.673 lb

### Array Layout

Y1	Y2	Y3	Y4
R1		R	2
Left		R	ight

	Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
	R1	694-960	1-2	1	CPxxxxxxxxxxxxR1
	R2	694-960	3-4	2	CPxxxxxxxxxxxxR2
	¥1	1695-2690	5-6	3	CPxxxxxxxxxxxxXXXXXXY1
	Y2	1427-2690	7-8	4	CPxxxxxxxxxxxxXXXXXY2
Y4	¥3	1427-2690	9-10	5	CPxxxxxxxxxxxxXXXXXXY3
	¥4	1695-2690	11-12	6	CPxxxxxxxxxxxxXY4

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

## Port Configuration

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### Logo Image



### **Electrical Specifications**

Electrical Specifications							
Total Input Power, maximum	900 V	√ @ 50 °C					
Polarization	±45°						
Operating Frequency Band	1427	– 2690 MHz	1695 – 1	2690 MHz	694 - 960	MHz	
Impedance	50 oh	m					

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## RRZZVV-65B-R6H4

Frequency Band, MHz	694–790	790-890	890-960	1695-220	0 2300–269	0 1427–151	8 1695–220	0 2300–2690
Gain, dBi	14.3	14.6	14.7	17.9	18.3	15.9	17.6	17.9
Beamwidth, Horizontal, degrees	70	65	63	64	57	65	62	60
Beamwidth, Vertical, degrees	11.5	10.3	9.3	6.4	5	8.6	6.8	5.1
Beam Tilt, degrees	2-14	2-14	2-14	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	17	17	17	18	20	16	16
Front-to-Back Ratio at 180°, dB	34	30	27	32	29	34	34	31
Isolation, Cross Polarization, dB	27	27	27	27	27	26	26	27
Isolation, Inter-band, dB	27	27	27	27	27	27	27	27
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	200	250	250	200

## Electrical Specifications, BASTA

Frequency Band, MHz	694-790	790-890	890-960	1695-220	0 2300–269	0 1427–151	8 1695–220	0 2300-2690
Gain by all Beam Tilts, average, dBi	13.9	14.2	14.4	16.9	17.9	15.4	16.6	17.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±1.1	±0.6	±0.5	±0.9	±0.9
Gain by Beam Tilt, average, dBi	2 °   14.1 8 °   14.0 14 °   13.5	2 °   14.3 8 °   14.3 14 °   13.8	2 °   14.7 8 °   14.6 14 °   13.8	2 °   16.5 7 °   17.1 12 °   16.9	2 °   17.4 7 °   18.1 12 °   17.8	2 °   15.1 7 °   15.4 12 °   15.6	2 °   16.3 7 °   16.8 12 °   16.6	2 °   16.6 7 °   17.5 12 °   17.3
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.9	±0.8	±0.8	±0.4	±0.5	±0.8	±0.5
USLS, beampeak to 20° above beampeak, dB	17	17	15	15	15	13	15	16
Front-to-Back Total Power at 180° ± 30°, dB	20	20	20	25	24	26	28	26
CPR at Boresight, dB	21	20	22	17	17	19	19	16

## Mechanical Specifications

Wind Loading @ Velocity, frontal	694.0 N @ 150 km/h (156.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	235.0 N @ 150 km/h (52.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	900.0 N @ 150 km/h (202.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	571.0 N @ 150 km/h (128.4 lbf @ 150 km/h)

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#### 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	2034 mm   80.079 in
Weight, gross	52.4 kg   115.522 lb

### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted
500 ISO 9001:2015	

### 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

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