## RR3VV-6520D-R5



16-port sector/multibeam antenna, 4x 694–960 MHz 2x 65° HPBW and 12x 1695–2690 MHz 6x 20° HPBW, 5x 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
- The three-beam array enables the configuration of up to nine sectors in mid bands in a regular three faces site
- The 65° HPBW pattern in low band keeps the traditional three sector coverage layers in the sub 1 GHz bands

#### General Specifications

Antenna Type Multibeam

Band Multiband

Color Light Gray (RAL 7035)

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

bracket

Performance Note Outdoor usage

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, mid band 12
RF Connector Quantity, low band 4
RF Connector Quantity, total 16

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

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

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET Low band (2) | Mid band (3)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

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**Protocol** 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

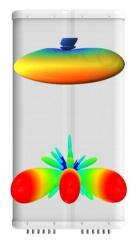
**Width** 498 mm | 19.606 in

**Depth** 197 mm | 7.756 in

**Length** 2688 mm | 105.827 in

Net Weight, antenna only 64 kg | 141.096 lb

### Array Layout





Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID		
	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1		
	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxR2		
Y1	1695-2690	5 - 6		115.51	60		
Y2	1695-2690	7 - 8	3	AISG1	CPxxxxxxxxxxxxxxY1		
Y3	1695-2690	9 - 10	4	AISG1	60		
Y4	1695-2690	11 - 12	4	AISG1	CPxxxxxxxxxxxxxxXY3		
Y5	1695-2690	13 - 14	5	AISG1	CPxxxxxxxxxxxxxY5		
Y6	1695-2690	15 - 16	3	AISGT	CPXXXXXXXXXXXXXXX		

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

## Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

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

Polarization ±45°

Total Input Power, maximum1,000 WBASTA Version, electricalBASTA v12

## **Electrical Specifications**

	R1-R2	R1-R2	R1-R2	Y1-Y6	Y1-Y6	Y1-Y6	Y1-Y6
Frequency Band, MHz	698-790	790-890	890-960	1710-1990	1920-2180	2300-2500	2500-2690
RF Port	1-4	1-4	1-4	5-16	5-16	5-16	5-16
Gain, dBi	15.7	15.8	16	19.7	20.5	20.9	20.9
Beam Centers, Horizontal, degrees				±0 ±35	±0 ±35	±0 ±35	±0 ±35
Beamwidth, Horizontal, degrees	74	69	67	24	21	19	17
Beamwidth, Vertical, degrees	8.9	8	7.2	7.2	6.6	5.7	5.4
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	16	17	17	17	18

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Front-to-Back Ratio at 180°, dB	29	29	32	32	33	30	28
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200

### Mechanical Specifications

**BASTA Version, mechanical**BASTA v12

## Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 86.7 kg | 191.141 lb

### Regulatory Compliance/Certifications

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

#### 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.
BSAMNT-M4	-	Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor bracket set.

#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

