

# RRVV2VV-6533D-R8



16-port sector/multibeam antenna 4x 694–960 MHz , 4x 1695-2690 MHz 65° HPBW and 8x 1710–2690 MHz 2x 2-Beam 33°HPBW, 8x RET. Band cascaded SRET

## General Specifications

<b>Antenna Type</b>	Multibeam
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<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 EN1991-1-4 standard
<b>Radome Material</b>	Fiberglass, UV resistant
<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>	12
<b>RF Connector Quantity, mid band</b>	0
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	16

## Remote Electrical Tilt (RET) Information

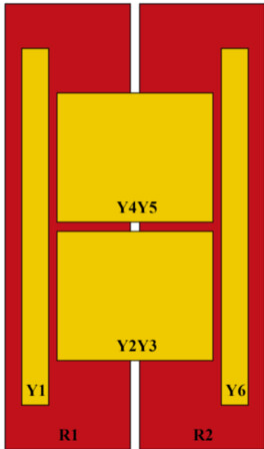
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	High band (6)   Low band (2)
<b>Power Consumption, active state, maximum</b>	8 W
<b>Power Consumption, idle state, maximum</b>	1 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

# RRVV2VV-6533D-R8

<b>Width</b>	498 mm   19.606 in
<b>Depth</b>	197 mm   7.756 in
<b>Length</b>	2577 mm   101.457 in
<b>Net Weight, antenna only</b>	53 kg   116.845 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	33°	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	33°	5	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	33°	6	AISG1	CPxxxxxxxxxxxxxxxxY4
Y5	1710-2690	13 - 14	33°	7	AISG1	CPxxxxxxxxxxxxxxxxY5
Y6	1695-2690	15 - 16	65°	8	AISG1	CPxxxxxxxxxxxxxxxxY6

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

## Port Configuration



# RRVV2VV-6533D-R8

## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz   1710 – 2690 MHz   694 – 960 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	1,700 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	694–806	790–896	890–960	1695–1990	1920–2300	2300–2500	2490–2690	1710–1990	1920–2300	2300–2500	2490–2690
<b>Gain at Mid Tilt, dBi</b>	15.3	15.7	15.9	16.7	17.8	18.5	18.6	17.5	18.9	18.9	19.3
<b>Beam Centers, Horizontal, degrees</b>								±27	±27	±27	±27
<b>Beamwidth, Horizontal, degrees</b>	71	64	63	73	64	58	56	36	33	30	27
<b>Beamwidth, Vertical, degrees</b>	9.2	8.2	7.6	5.8	5.3	4.8	4.6	7.2	6.5	5.7	5.3
<b>Beam Tilt, degrees</b>	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
<b>USLS (First Lobe), dB</b>	19	17	18	25	24	21	18	17	19	20	20
<b>Front-to-Back Ratio at 180°, dB</b>	29	28	29	34	33	35	33	38	38	34	32
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	22	22	22	24	25	28	26	32	31	28	27
<b>CPR at Boresight, dB</b>	24	22	17	21	21	23	22	17	21	17	21
<b>CPR at Sector, dB</b>	10	10	13	8	7	9	7				
<b>Isolation, Cross Polarization,</b>	25	25	25	25	25	25	25	25	25	25	25

# RRVV2VV-6533D-R8

<b>dB</b>											
<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25	25	25	25	25	25
<b>Isolation, Beam to Beam, dB</b>								17	17	17	17
<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	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	250	200	200	200	200	200	200	200	200

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	876.0 N @ 150 km/h (196.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	229.0 N @ 150 km/h (51.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	1,165.0 N @ 150 km/h (261.9 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	603.0 N @ 150 km/h (135.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	565 mm   22.244 in
<b>Depth, packed</b>	309 mm   12.165 in
<b>Length, packed</b>	2824 mm   111.181 in
<b>Weight, gross</b>	74 kg   163.142 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

# RRVV2VV-6533D-R8

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## 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