

RRVV2VV-6533B-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

- All Internal RET actuators are connected in “Cascaded SRET” configuration

General Specifications

Antenna Type	DualPol® 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 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	12
RF Connector Quantity, low band	4
RF Connector Quantity, total	16

Remote Electrical Tilt (RET) Information

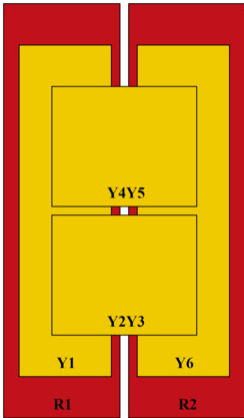
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (6) Low band (2)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

RRVV2VV-6533B-R8

Width	498 mm 19.606 in
Depth	197 mm 7.756 in
Length	2100 mm 82.677 in
Net Weight, antenna only	46 kg 101.413 lb

Array Layout



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

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

Port Configuration



Electrical Specifications

RRVV2VV-6533B-R8

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

Electrical Specifications

Frequency Band, MHz	694–790	790–890	890–960	1695–2180	2300–2690	1710–2180	2300–2690
Gain, dBi	14.6	14.9	15.2	16.9	18.6	18.2	19
Beam Centers, Horizontal, degrees						±27	±23
Beamwidth, Horizontal, degrees	75	66	65	72	56	34	27
Beamwidth, Vertical, degrees	11.4	10.1	9.4	6.3	5.1	8	6.3
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	16	15	21	21	16	18
Front-to-Back Ratio at 180°, dB	30	30	29	34	34	37	32
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25
Isolation, Beam to Beam, dB						17	17
VSWR Return loss, dB	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5	1.5 14.5
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	200	150	200	150

Electrical Specifications, BASTA

Frequency Band, MHz	694–790	790–890	890–960	1695–2180	2300–2690	1710–2180	2300–2690
Gain by all Beam Tilts, average, dBi	14.2	14.7	14.9	16.5	18.1	17.4	18.5
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.5	±0.7	±0.7	±1.4	±1
Beamwidth, Horizontal Tolerance, degrees	±7.2	±6.3	±3.9	±6.7	±4.2	±3.7	±3.1
Beamwidth, Vertical Tolerance, degrees	±1.1	±1	±1.1	±0.5	±0.5	±0.9	±0.7
USLS, beampeak to 20° above beampeak, dB	16	16	15	19	16	14	15

RRVV2VV-6533B-R8

Front-to-Back Total Power at 180° ± 30°, dB	21	22	21	25	26	30	27
CPR at Boresight, dB	21	21	19	21	22	18	20
CPR at Sector, dB	14	9	10	9	5		
CPR at 10 dB Horizontal Beamwidth, dB						8	11

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.68 m ² 7.319 ft ²
Effective Projective Area (EPA), lateral	0.21 m ² 2.26 ft ²
Wind Loading @ Velocity, frontal	728.0 N @ 150 km/h (163.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	223.0 N @ 150 km/h (50.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	873.0 N @ 150 km/h (196.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	501.0 N @ 150 km/h (112.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	309 mm 12.165 in
Length, packed	2287 mm 90.039 in
Weight, gross	61.4 kg 135.364 lb

Regulatory Compliance/Certifications

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



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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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