

RR2VV-6533BR6VB-V5



12-port sector/multibeam antenna, 4x 698–960 MHz 65° HPBW and 8x 1710–2690 MHz 4x 33°HPBW, 6x RET

- Antenna with tilt scale indicators and integrated pluggable RET
- Reliable Performance: The hybrid twin-beam design ensures perfectly symmetrical arrays within the antenna, delivering consistent pattern performance across all ports. Optimized for 4T4R (4x MIMO) configurations, it maintains dependable functionality across the entire band for both sector and twin-beam applications

General Specifications

Antenna Type	Multibeam
Band	Multiband
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	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, mid 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	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	13 W
Power Consumption, idle state, maximum	2 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	2000 mm 78.74 in
Net Weight, without mounting kit	39 kg 85.98 lb

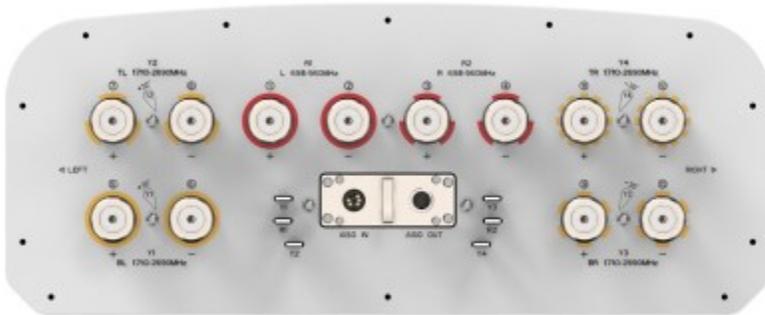
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (dBm)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	ANXXXXXXXXXXXXXXXXR1
R2	698-960	3 - 4	2	AISG1	ANXXXXXXXXXXXXXXXXR2
Y1	1710-2690	5 - 6	3	AISG1	ANXXXXXXXXXXXXXXXXY1
Y2	1710-2690	7 - 8	4	AISG1	ANXXXXXXXXXXXXXXXXY2
Y3	1710-2690	9 - 10	5	AISG1	ANXXXXXXXXXXXXXXXXY3
Y4	1710-2690	11 - 12	6	AISG1	ANXXXXXXXXXXXXXXXXY4

Colors of colored boxes are not true depictions of array sizes

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz 698 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

Electrical Specifications

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	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12
Beam Centers, Horizontal, degrees				±30	±30	±30	±30
Beamwidth, Horizontal, degrees	65	61	59	34	30	28	26
Beamwidth, Vertical, degrees	11.8	10.6	9.6	9.8	8.8	7.9	7.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	15	15	15	15	15	15
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	23	23	23	24	24	25	25
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				15	15	15	15
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	300	300	300	200	200	200	200

Electrical Specifications, BASTA

	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
Frequency Band, MHz	698-803	824-894	880-960	1710-1880	1920-2170	2300-2400	2490-2690
Gain by all Beam Tilts, average, dBi	14.2	14.5	15	16.7	17.5	17.5	17.6
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.6	±0.7	±0.8	±0.8	±0.7
Beamwidth, Horizontal Tolerance, degrees	±8	±6	±7	±3	±3	±3	±2
Beamwidth, Vertical Tolerance, degrees	±1	±0.9	±0.8	±0.8	±0.8	±0.7	±0.7

Mechanical Specifications

Wind Loading @ Velocity, frontal	577.0 N @ 150 km/h (129.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	275.0 N @ 150 km/h (61.8 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	1,024.0 N @ 150 km/h (230.2 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

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Packaging and Weights

Width, packed	565 mm 22.244 in
Depth, packed	305 mm 12.008 in
Length, packed	2145 mm 84.449 in
Weight, gross	48 kg 105.822 lb

Regulatory Compliance/Certifications

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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