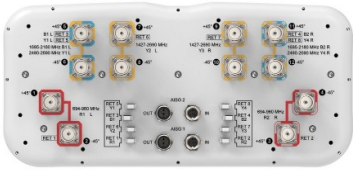


RRZZVV-65B-R8NV3D



12-port sector antenna, 4x 694–960, 4x 1427–2690 and 4x 1695–2690 MHz, 65° HPBW, 8x RET

- SEED® antenna providing high gain and improved efficiency
- High radiation and pattern efficiency for improved coverage area, capacity or reduced power consumption for a given area
- Reduces the amount of aluminum used to minimize CO2 release
- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- Retractable tilt indicator rods
- Independent Tilt DIPLEXED Antenna for 1800/2100 and for 2600 MHz when used with 4T4R multi-band radios

General Specifications

Antenna Type	Sector
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
Reflector Material	Aluminum
RF Connector Interface	4.3-10 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	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (6)
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 430 mm | 16.929 in
Depth 197 mm | 7.756 in
Length 2100 mm | 82.677 in
Net Weight, antenna only 39.6 kg | 87.303 lb

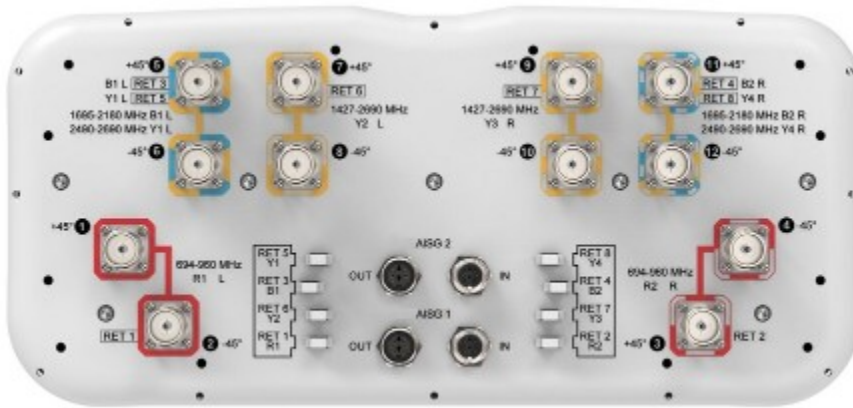
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
B1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
B2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2
B1	1695-2180	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxB1
B2	1695-2180	11 - 12	65°	4	AISG1	CPxxxxxxxxxxxxxxxxB2
Y1	2490-2690	7 - 8	65°	5	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	9 - 10	65°	6	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	11 - 12	65°	7	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	2490-2690	13 - 14	65°	8	AISG1	CPxxxxxxxxxxxxxxxxY4

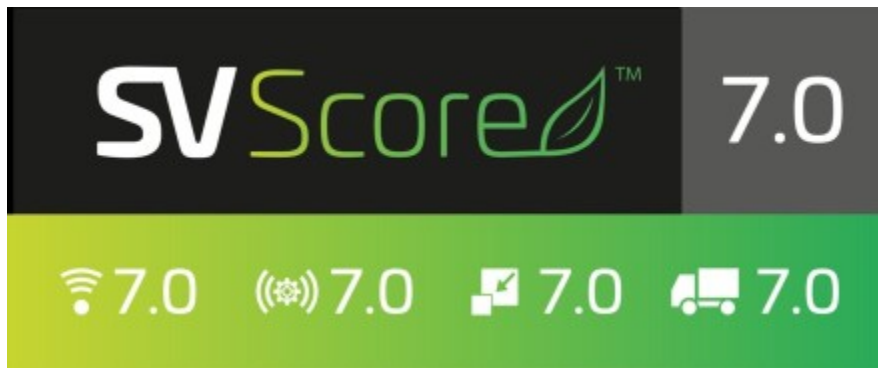
(Color of colored boxes are not true depictions of array sizes)

Port Configuration



Logo Image

RRZZVV-65B-R8NV3D



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,200 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	B1,B2	B1,B2	Y1,Y4
Frequency Band, MHz	698–806	790–894	890–960	1695–1995	1920–2180	2490–2690
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	5,6,11,12	5,6,11,12	5,6,11,12
Gain at Mid Tilt, dBi	14.6	15.4	15.8	17.4	18	18.5
Beamwidth, Horizontal, degrees	73	63	58	70	67	64
Beamwidth, Vertical, degrees	10.4	9.5	8.8	5.5	5	4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	17	17	15	16	20
Front-to-Back Ratio at 180°, dB	28	28	29	30	29	28
Front-to-Back Total Power at 180° ± 30°, dB	20	22	22	25	23	23
Isolation, Cross Polarization, dB	25	25	25	26	26	26
Isolation, Inter-band, dB	25	25	25	26	26	26
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	180	180	180

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Electrical Specifications

	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	7,8,9,10	7,8,9,10	7,8,9,10	7,8,9,10	7,8,9,10
Gain at Mid Tilt, dBi	15.6	17.7	18.4	19.5	19.9
Beamwidth, Horizontal, degrees	79	64	61	57	54
Beamwidth, Vertical, degrees	7.5	5.8	5.2	4.5	4.1
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	14	18	18	16	17
Front-to-Back Ratio at 180°, dB	33	33	34	35	37
Front-to-Back Total Power at 180° ± 30°, dB	24	26	27	28	31
Isolation, Cross Polarization, dB	25	26	26	26	26
Isolation, Inter-band, dB	25	26	26	26	26
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Mechanical Specifications

BASTA Version, mechanical	BASTA v12
Wind Loading @ Velocity, frontal	494.0 N @ 150 km/h (111.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	266.0 N @ 150 km/h (59.8 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	780.0 N @ 150 km/h (175.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	349 mm 13.74 in
Length, packed	2272 mm 89.449 in
Weight, gross	49.4 kg 108.908 lb

RRZZVV-65B-R8NV3D

Regulatory Compliance/Certifications

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

Included Products

BSAMNT-2F	-	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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