

RRZZVV-65A-R6N47G



12-port sector antenna, 4 x 694–960, 4 x 1427–2690 and 4 x 1695–2690 MHz, 65° HPBW, 6x 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
- Includes integrated GPS (APS-XT-GPS)

General Specifications

Antenna Type	Sector
Band	Multiband
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
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 (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	468 mm 18.425 in
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RRZZVV-65A-R6N47G

Depth 228 mm | 8.976 in
Length 1599 mm | 62.953 in
Net Weight, without mounting kit 30.3 kg | 66.8 lb

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (RET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1or2	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1or2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1or2	CPxxxxxxxxxxxxxxxxY1
Y2	1427-2690	7 - 8	4	AISG1or2	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	9 - 10	5	AISG1or2	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	6	AISG1or2	CPxxxxxxxxxxxxxxxxY4

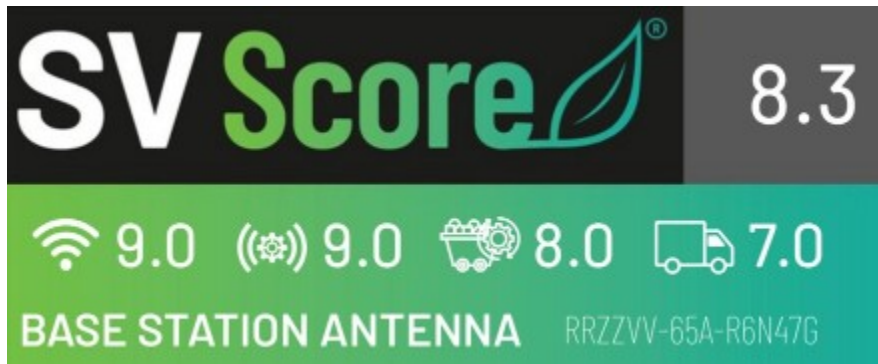
(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration



RRZZVV-65A-R6N47G

Logo Image



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,800 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3
Frequency Band, MHz	698–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	1-4	1-4	1-4	7-10	7-10	7-10	7-10	7-10
Gain at Mid Tilt, dBi	13.9	14.5	14.9	17.1	17.8	18.7	19.3	20.1
Beamwidth, Horizontal, degrees	69	62	57	61	75	67	62	56
Beamwidth, Vertical, degrees	14.2	13	11.5	7.5	6	5.4	4.9	4.5
Beam Tilt, degrees	2–16	2–16	2–16	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	18	18	16	17	17	17	21	19
Front-to-Back Ratio at 180°, dB	29	28	28	32	37	40	40	40
CPR at Boresight, dB	22	22	23	21	17	17	15	15
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	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	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153

RRZZVV-65A-R6N47G

Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200
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Electrical Specifications

	Y1,Y4	Y1,Y4	Y1,Y4	Y1,Y4
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	5,6,11,12	5,6,11,12	5,6,11,12	5,6,11,12
Gain at Mid Tilt, dBi	17.6	18.5	19.2	19.9
Beamwidth, Horizontal, degrees	77	68	62	56
Beamwidth, Vertical, degrees	6.2	5.6	4.9	4.5
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	20	21	21	19
Front-to-Back Ratio at 180°, dB	32	31	32	33
CPR at Boresight, dB	25	21	17	18
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25
VSWR Return loss, dB	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
Input Power per Port at 50°C, maximum, watts	250	250	200	200

Mechanical Specifications

BASTA Version, mechanical	BASTA v12
Wind Loading @ Velocity, frontal	316.0 N @ 150 km/h (71.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	272.0 N @ 150 km/h (61.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	563.0 N @ 150 km/h (126.6 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	337.0 N @ 150 km/h (75.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	566 mm 22.283 in
Depth, packed	380 mm 14.961 in
Length, packed	1781 mm 70.118 in
Weight, gross	41.5 kg 91.492 lb

RRZZVV-65A-R6N47G

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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