

RRZZVV-65D-R6N47DG



12-port sector antenna, 4x 694-960,4x 1427-2690 and 4x 1695- 2180 /2490-2690 MHz, 65° HPBW, 6x RET

- Innovative aerodynamic shape optimized for reduced wind loading in every direction
- Reduces the amount of aluminum used to minimize CO2 release
- 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
- Retractable tilt indicator rods
- Includes integrated APS with GPS, RAE mode (can be reconfigured to RET or ASD+GLS mode)

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)

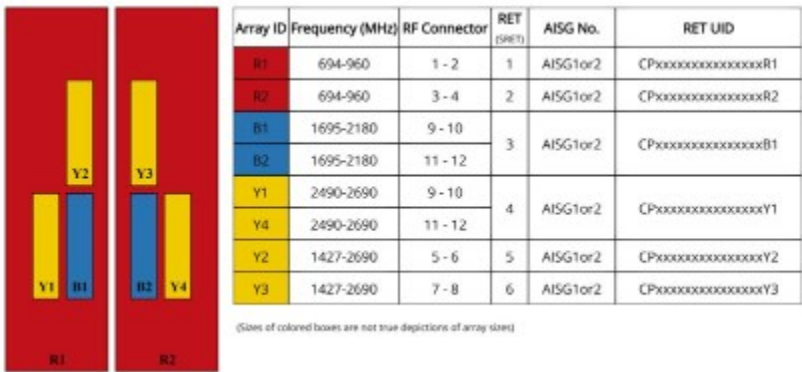
Dimensions

Width	468 mm 18.425 in
-------	--------------------

RRZZVV-65D-R6N47DG

Depth	228 mm 8.976 in
Length	2769 mm 109.016 in
Net Weight, without mounting kit	46.5 kg 102.515 lb

Array Layout



Port Configuration



RRZZVV-65D-R6N47DG

Logo Image



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2180 MHz 2490 – 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	B1,B2	B1,B2	Y1,Y4
Frequency Band, MHz	698–806	790–894	890–960	1427–1518	1695–1995	1920–2300	2300–2500	2490–2690	1695–1995	1920–2180	2490–2690
RF Port	1,2,3,4	1,2,3,4	1,2,3,4	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8	9,10,11,12	9,10,11,12	9,10,11,12
Gain at Mid Tilt, dBi	16.5	17.2	17.4	16.5	18	18.1	18.8	19.1	18	18.9	20
Beamwidth, Horizontal, degrees	70	66	66	63	61	66	63	59	74	65	58
Beamwidth, Vertical, degrees	7.6	6.9	6.2	8.7	7.3	6.4	5.6	5.1	5.9	5.4	4.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	17	17	16	19	21	17	19	17	16	14	20
Front-to-Back Ratio at 180°, dB	29	28	28	31	36	35	34	36	34	36	35
Front-to-Back Total Power at	19	21	22	20	29	30	28	28	27	29	25

RRZZVV-65D-R6N47DG

180° ± 30°, dB											
CPR at Boresight, dB	21	23	22	23	18	18	17	19	25	23	19
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	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	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	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200	250	250	200

Mechanical Specifications

BASTA Version, mechanical	BASTA v12
Wind Loading @ Velocity, frontal	547.0 N @ 150 km/h (123.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	470.0 N @ 150 km/h (105.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	976.0 N @ 150 km/h (219.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	583.0 N @ 150 km/h (131.1 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	566 mm 22.283 in
Depth, packed	425 mm 16.732 in
Length, packed	2950 mm 116.142 in
Weight, gross	65.7 kg 144.844 lb

Regulatory Compliance/Certifications

Agency	Classification
--------	----------------



RRZZVV-65D-R6N47DG

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 www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

BSAMNT-11	–	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.
-----------	---	--

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
-------------------------	---