

RRZZV4-65D-R8NV3

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

- Retractable tilt indicator rods
- 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

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	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	Low band (2) Mid band (6)
Power Consumption, active state, maximum	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	430 mm 16.929 in
Depth	197 mm 7.756 in
Length	2769 mm 109.016 in

RRZZV4-65D-R8NV3

Net Weight, antenna only 49.3 kg | 108.688 lb

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	Y1,Y5	Y1,Y5	Y1,Y5	Y1,Y5	Y1,Y5
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	5,6,13,14	5,6,13,14	5,6,13,14	5,6,13,14	5,6,13,14
Gain at Mid Tilt, dBi	15.4	16.1	16.5	15.8	17.2	18	19.1	19.5
Beamwidth, Horizontal, degrees	72	61	59	68	66	61	55	54
Beamwidth, Vertical, degrees	7.6	6.8	6.3	8.2	6.6	5.7	5	4.5
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	16	17	15	14	15	18	18
Front-to-Back Ratio at 180°, dB	28	32	29	29	30	28	32	30
Front-to-Back Total Power at 180° ± 30°, dB	21	20	19	22	25	25	27	27
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25	25
Isolation, Inter-band, dB	27	27	27	26	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	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
Input Power per Port at 50°C, maximum, watts	300	300	300	250	250	250	200	200

Electrical Specifications

	Y2,Y6	Y2,Y6	Y2,Y6	Y2,Y6	Y3,Y4	Y3,Y4	Y3,Y4	Y3,Y4
Frequency Band, MHz	1695–1995	1920–2300	2300–2500	2490–2690	1695–1995	1920–2300	2300–2500	2490–2690
RF Port	7,8,15,16	7,8,15,16	7,8,15,16	7,8,15,16	9-12	9-12	9-12	9-12
Gain at Mid Tilt, dBi	16.9	17.8	18	18.5	17.4	18.5	19.3	19.5
Beamwidth, Horizontal, degrees	67	65	64	61	68	64	61	60

RRZZV4-65D-R8NV3

Beamwidth, Vertical, degrees	6.4	5.7	5.1	4.7	5.7	5.1	4.4	4.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	16	20	21	17	17	14	17
Front-to-Back Ratio at 180°, dB	28	28	30	31	33	35	38	36
Front-to-Back Total Power at 180° ± 30°, dB	25	25	27	26	27	29	30	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	26	26	26	26	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	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
Input Power per Port at 50°C, maximum, watts	250	250	200	200	250	250	200	200

Mechanical Specifications

BASTA Version, mechanical	BASTA v12
Wind Loading @ Velocity, frontal	680.0 N @ 150 km/h (152.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	347.0 N @ 150 km/h (78.0 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	1,020.0 N @ 150 km/h (229.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	434.0 N @ 150 km/h (97.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	529 mm 20.827 in
Depth, packed	356 mm 14.016 in
Length, packed	2897 mm 114.055 in
Weight, gross	63.6 kg 140.214 lb

Regulatory Compliance/Certifications

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

Included Products

BSAMNT-3F	-	Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical
-----------	---	---

RRZZV4-65D-R8NV3

tilt applications.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance