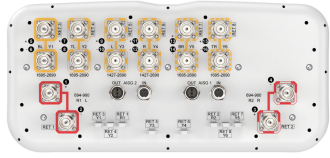


RRZZV4-65D-R8NV1



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

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Retractable tilt indicator rods
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and High band
- Antenna shape optimized for wind load reduction

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, high band	0
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

RRZZV4-65D-R8NV1

Protocol 3GPP/AISG 2.0

Dimensions

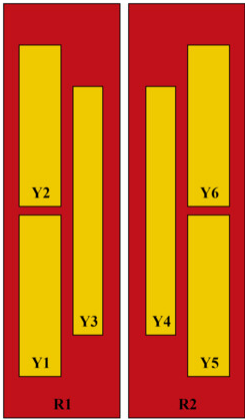
Width 430 mm | 16.929 in

Depth 197 mm | 7.756 in

Length 2769 mm | 109.016 in

Net Weight, antenna only 47.9 kg | 105.601 lb

Array Layout

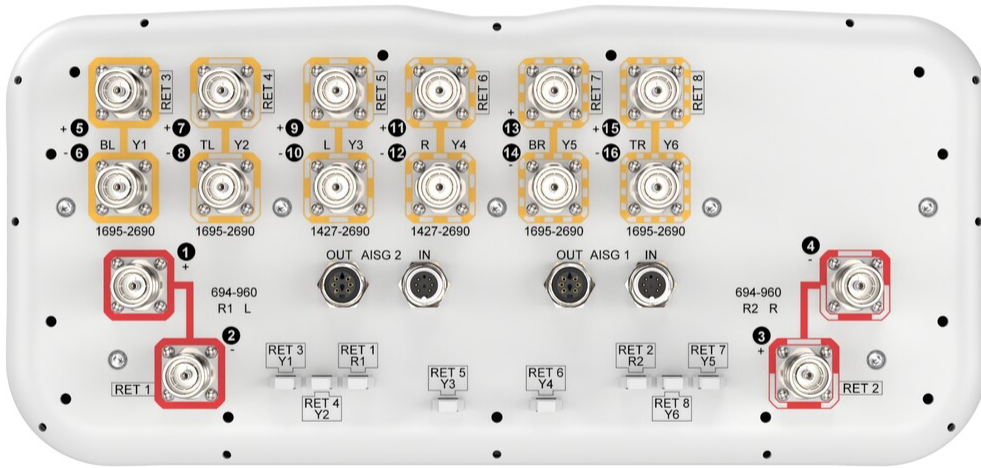


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
R1	694-960	1 - 2	1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	CPxxxxxxxxxxxxxxxxY2
Y3	1427-2690	9 - 10	5	CPxxxxxxxxxxxxxxxxY3
Y4	1427-2690	11 - 12	6	CPxxxxxxxxxxxxxxxxY4
Y5	1695-2690	13 - 14	7	CPxxxxxxxxxxxxxxxxY5
Y6	1695-2690	15 - 16	8	CPxxxxxxxxxxxxxxxxY6

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

Port Configuration

RRZZV4-65D-R8NV1



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1427 – 2690 MHz 1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698–806	790–896	890–960	1427–1518	1695–1990	1920–2300	2300–2500	2490–2690
Beamwidth, Horizontal, degrees	70	63	61	61	68	67	62	59
Beamwidth, Vertical, degrees	7.6	6.8	6.4	6.9	5.7	5.1	4.6	4.3
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12	2–12

RRZZV4-65D-R8NV1

USLS (First Lobe), dB	17	18	16	15	18	19	20	19
Front-to-Back Ratio at 180°, dB	32	30	30	30	31	31	31	31
Front-to-Back Total Power at 180° ± 30°, dB	24	23	22	24	26	27	27	27
Isolation, Cross Polarization, dB	27	27	27	26	26	26	26	26
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	250	250	250	200	200	200	150	150

Electrical Specifications

Frequency Band, MHz	1695–1990	1920–2300	2300–2500	2490–2690
Beamwidth, Horizontal, degrees	69	64	62	62
Beamwidth, Vertical, degrees	6.3	5.6	5	4.8
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	15	17	18
Front-to-Back Ratio at 180°, dB	32	31	32	32
Front-to-Back Total Power at 180° ± 30°, dB	26	25	26	26
Isolation, Cross Polarization, dB	27	27	27	27
Isolation, Inter-band, dB	27	27	27	27
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	200	200	150	150

Mechanical Specifications

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)

RRZZV4-65D-R8NV1

Packaging and Weights

Width, packed	530 mm 20.866 in
Depth, packed	356 mm 14.016 in
Length, packed	2897 mm 114.055 in
Weight, gross	68.9 kg 151.898 lb

Regulatory Compliance/Certifications

Agency	Classification
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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

- BSAMNT-3 – 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