

RRV4-65B-R6VB



12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

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
Radiator Material	Aluminum Low loss circuit board
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

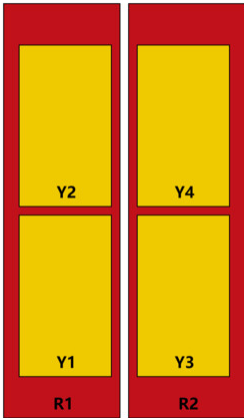
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
Input Voltage	10–30 Vdc
Internal RET	Low band (2) Mid band (4)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

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Width	469 mm 18.465 in
Depth	198 mm 7.795 in
Length	2000 mm 78.74 in
Net Weight, antenna only	32.6 kg 71.871 lb

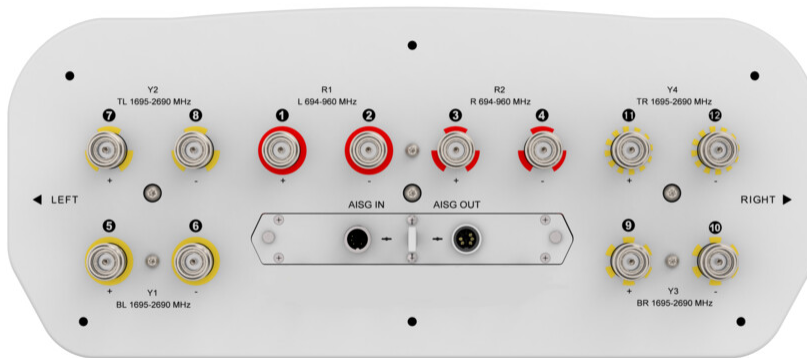
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	65°	2	AISG1	CPxxxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	65°	3	AISG1	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	65°	4	AISG1	CPxxxxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	65°	5	AISG1	CPxxxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	65°	6	AISG1	CPxxxxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

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Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	694-806	790-896	880-960	1695-1880	1850-1990	1920-2200	2300-2490	2500-2690
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12	5-12
Gain, dBi	14.8	15.3	15.4	16	16.2	16.3	16.2	16.2
Beamwidth, Horizontal, degrees	66	65	63	67	66	65	66	61
Beamwidth, Vertical, degrees	12.4	11.3	10.7	10.2	9.5	8.9	7.7	7
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	19	21	24	23	21	18
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	26	27	26	27	27	27	23	24
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	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200	200

Electrical Specifications, BASTA

	694-806	790-896	880-960	1695-1880	1850-1990	1920-2200	2300-2490	2500-2690
Frequency Band, MHz	694-806	790-896	880-960	1695-1880	1850-1990	1920-2200	2300-2490	2500-2690
Gain by all Beam Tilts, average, dBi	14.5	15.1	15.2	15.6	15.9	15.9	15.7	15.9
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.3	±0.5	±0.3	±0.4	±0.6	±0.5
Beamwidth, Horizontal Tolerance, degrees	±4	±5	±6	±2	±3	±7	±8	±6
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.5	±1	±0.7	±1	±0.7	±0.6
CPR at Boresight, dB	26	25	23	19	23	23	19	19

Mechanical Specifications

Wind Loading @ Velocity, frontal	536.0 N @ 150 km/h (120.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	569.0 N @ 150 km/h (127.9 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

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Packaging and Weights

Width, packed	540 mm 21.26 in
Depth, packed	275 mm 10.827 in
Length, packed	2270 mm 89.37 in
Weight, gross	44.7 kg 98.547 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



* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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