RRV4-65B-R6H4-V5

12-port sector antenna, 4x 698-960 and 8x 1710- 2690 MHz, 65° HPBW, 6x RET

- Antenna with tilt scale indicators and integrated pluggable RET
- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and Dual 4T4R (4x MIMO) on High band

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
Radome Material	Fiberglass, UV resistant
Radiator Material	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
Internal RET	Low band (2) | Mid band (4)
Protocol	3GPP/AISG 2.0

Dimensions

Width	469 mm | 18.465 in
Depth	198 mm | 7.795 in
Length	1950 mm | 76.772 in

RRV4-65B-R6H4-V5

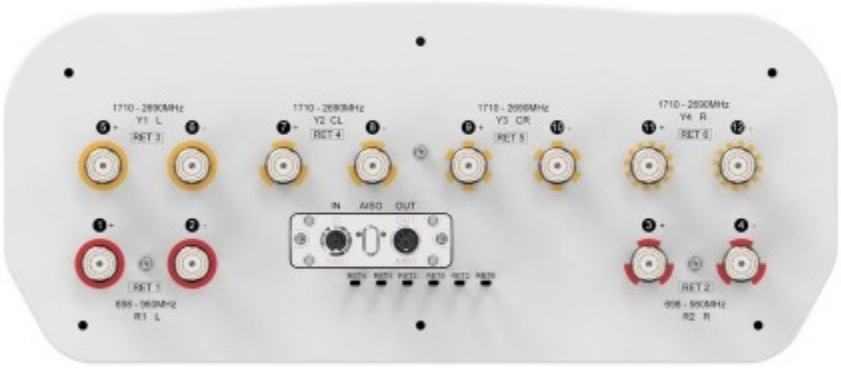
Net Weight, without mounting kit 25 kg | 55.116 lb

Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	698-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	698-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1710-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1710-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1710-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxY3
Y4	1710-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz | 698 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W

Electrical Specifications

	R1,R2	R1,R2	R1,R2	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	**698–803**	**824–894**	**880–960**	**1710–1880**	**1920–2170**	**2300–2400**	**2490–2690**
RF Port	1-4	1-4	1-4	5-12	5-12	5-12	5-12
Beamwidth, Horizontal,	65	63	62	67	63	62	59

RRV4-65B-R6H4-V5

degrees							
Beamwidth, Vertical, degrees	10.8	9.6	8.9	6.8	6	5.1	4.4
Beam Tilt, degrees	2–12	2–12	2–12	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	15	15	15	15	15	15
Front-to-Back Ratio at 180°, dB	23	23	23	24	24	24	25
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	**698–803**	**824–894**	**880–960**	**1710–1880**	**1920–2170**	**2300–2400**	**2490–2690**
Gain by all Beam Tilts, average, dBi	14.6	14.9	15	16.9	17.5	17.7	18
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.5	±0.6	±0.7	±0.6	±0.7	±0.8
Beamwidth, Horizontal Tolerance, degrees	±6	±6	±7	±7	±6	±7	±6
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.8	±0.8	±0.5	±0.5	±0.4	±0.4

Mechanical Specifications

Wind Loading @ Velocity, frontal	521.0 N @ 150 km/h (117.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	554.0 N @ 150 km/h (124.5 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Regulatory Compliance/Certifications

Agency	**Classification**
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance