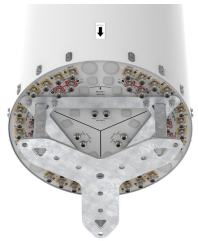
3X-RRV4-65B-R12



36- ports tri-sector antenna ,12x 694-960 and 24x 1695-2690 MHz, 65° HPBW, 12x RET

- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Features a multiband tri-sectors antenna built under one radome
- Fully integrated flange mounting system for ease of installation
- Ideal concealment solution for areas with special regulations regarding visual impact
- Separated Extension KIT available for this antenna, check Optional Mounting Kits section
- No pole mounting kit for this antenna

General Specifications

Antenna Type	DualPol® tri-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	24
RF Connector Quantity, low band	12
RF Connector Quantity, total	36

Remote Electrical Tilt (RET) Information

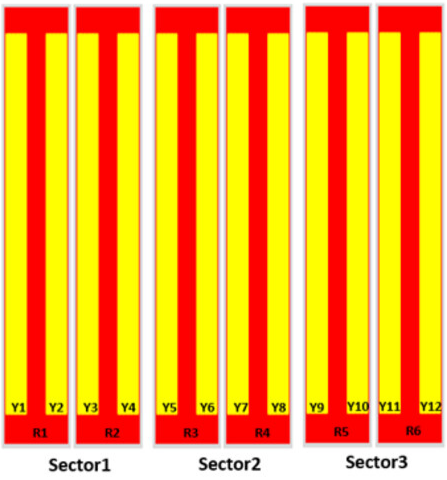
RET Hardware	CommRET v2
RET Interface	8-pin DIN Male
RET Interface, quantity	6 male
Internal RET	Low band (6) | Mid band (6)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W

3X-RRV4-65B-R12

Dimensions

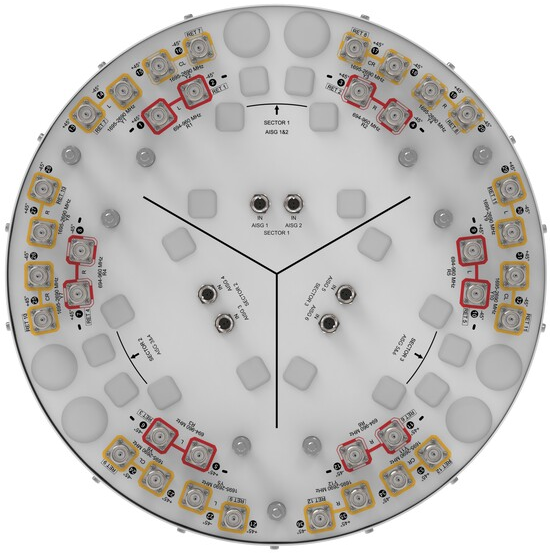
Length	2100 mm | 82.677 in
Net Weight, antenna only	95.5 kg | 210.541 lb
Outer Diameter	580 mm | 22.835 in

Array Layout



Array	Freq(MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxR2
R3	694-960	5-6	3	CPxxxxxxxxxxxxxxxR3
R4	694-960	7-8	4	CPxxxxxxxxxxxxxxxR4
R5	694-960	9-10	5	CPxxxxxxxxxxxxxxxR5
R6	694-960	11-12	6	CPxxxxxxxxxxxxxxxR6
Y1	1695-2690	13-14	7	CPxxxxxxxxxxxxxxxY1
Y2	1695-2690	15-16		
Y3	1695-2690	17-18	8	CPxxxxxxxxxxxxxxxY3
Y4	1695-2690	19-20		
Y5	1695-2690	21-22	9	CPxxxxxxxxxxxxxxxY5
Y6	1695-2690	23-24		
Y7	1695-2690	25-26	10	CPxxxxxxxxxxxxxxxY7
Y8	1695-2690	27-28		
Y9	1695-2690	29-30	11	CPxxxxxxxxxxxxxxxY9
Y10	1695-2690	31-32		
Y11	1695-2690	33-34	12	CPxxxxxxxxxxxxxxxYB
Y12	1695-2690	35-36		

Port Configuration



3X-RRV4-65B-R12

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz | 694 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,800 W @ 50 °C

Electrical Specifications

	R1-R4	R1-R4	R1-R4	Y1-Y12	Y1-Y12	Y1-Y12	Y1-Y12
Frequency Band, MHz	**694–790**	**790–890**	**880–960**	**1695–1920**	**1920–2180**	**2300–2500**	**2500–2690**
RF Port	1-12	1-12	1-12	13-36	13-36	13-36	13-36
Gain, dBi	14.5	14.9	15.2	16.8	18	18.4	18.1
Beamwidth, Horizontal, degrees	64	59	55	70	63	58	62
Beamwidth, Vertical, degrees	10.7	9.7	8.7	6	5.4	4.7	4.4
Beam Tilt, degrees	2–14	2–14	2–14	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	16	15	14	16	17	20	20
Front-to-Back Ratio at 180°, dB	31	30	28	31	33	31	33
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 at 50°C, maximum, watts	250	250	250	200	200	200	200

Mechanical Specifications

Wind Loading @ Velocity, frontal	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	750 mm | 29.528 in

3X-RRV4-65B-R12

Depth, packed	690 mm | 27.165 in
Length, packed	2510 mm | 98.819 in
Weight, gross	116 kg | 255.736 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