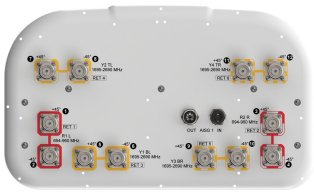
RRV4-65A-R6N39



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
- Excellent wind loading characteristics
- Array configuration provides capability for 4T4R (4x MIMO) on Low band and 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
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	0
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	8 W
Power Consumption, idle state, maximum	1 W
Protocol	3GPP/AISG 2.0 (Single RET)

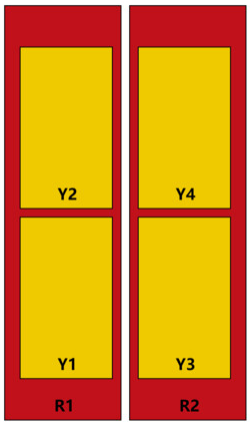
Dimensions

Width	395 mm | 15.551 in
Depth	228 mm | 8.976 in

RRV4-65A-R6N39

Length	1499 mm | 59.016 in
Net Weight, antenna only	24.3 kg | 53.572 lb

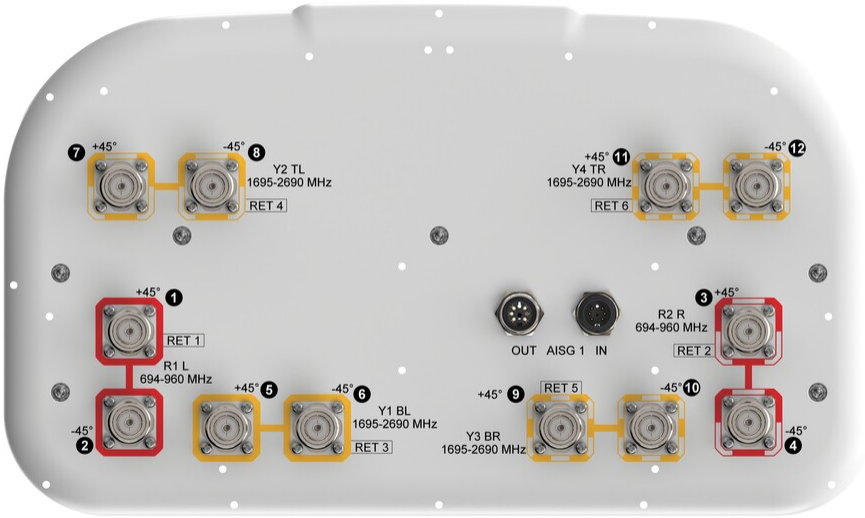
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxR2
Y1	1695-2690	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxY1
Y2	1695-2690	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxY2
Y3	1695-2690	9 - 10	5	AISG1	CPxxxxxxxxxxxxxxY3
Y4	1695-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxY4

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

Port Configuration



Electrical Specifications

Impedance	50 ohm

RRV4-65A-R6N39

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

Electrical Specifications

	R1,R2	R1,R2	R1,R2
Frequency Band, MHz	**694–806**	**790–894**	**890–960**
RF Port	1-4	1-4	1-4
Gain, dBi	13.2	13.7	13.6
Beamwidth, Horizontal, degrees	64	55	49
Beamwidth, Vertical, degrees	14.8	13.4	12.7
Beam Tilt, degrees	3–16	3–16	3–16
USLS (First Lobe), dB	15	16	17
Front-to-Back Ratio at 180°, dB	29	27	26
Isolation, Cross Polarization, typical, dB	25	25	25
Isolation, Inter-band, typical, dB	25	25	25
VSWR | Return loss, dB	1.5 | 14.0	1.5 | 14.0	1.5 | 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	300

Electrical Specifications

	Y1-Y4	Y1-Y4	Y1-Y4	Y1-Y4
Frequency Band, MHz	**1695–1920**	**1920–2200**	**2300–2490**	**2490–2690**
RF Port	5-12	5-12	5-12	5-12
Gain, dBi	14.7	15	16	16.1
Beamwidth, Horizontal, degrees	64	67	54	58
Beamwidth, Vertical, degrees	14	12.3	10.5	9.6
Beam Tilt, degrees	2–12	2–12	2–12	2–12
USLS (First Lobe), dB	15	17	16	15
Front-to-Back Ratio at 180°, dB	34	34	31	29
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, typical, dB	25	25	25	25
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	250	250	250	250

Mechanical Specifications

Wind Loading @ Velocity, frontal	217.0 N @ 150 km/h (48.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	193.0 N @ 150 km/h (43.4 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	436.0 N @ 150 km/h (98.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	248.0 N @ 150 km/h (55.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	510 mm | 20.079 in
Depth, packed	386 mm | 15.197 in
Length, packed	1633 mm | 64.291 in
Weight, gross	36 kg | 79.366 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.andrew.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