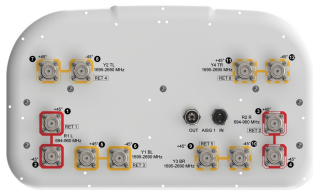


RRV4-65A-R6N39



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

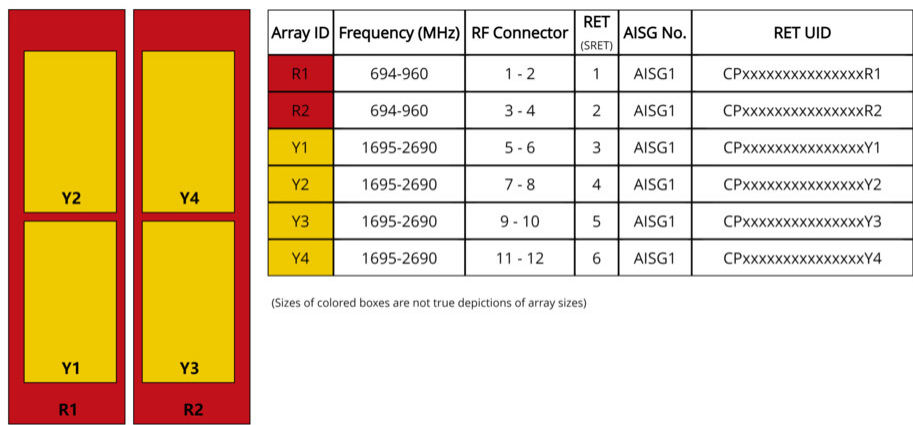
Length

1499 mm | 59.016 in

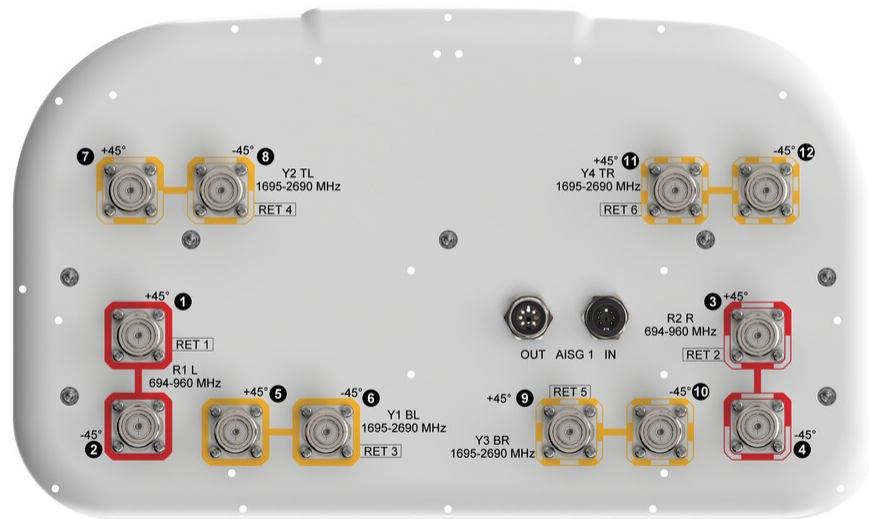
Net Weight, antenna only

24.3 kg | 53.572 lb

Array Layout



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
CPR at Boresight, dB	23	28	18
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
CPR at Boresight, dB	18	19	20	21
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter-band, typical, dB	25	25	25	25

RRV4-65A-R6N39

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.
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* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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