RRV4-65D-R6



12-port sector antenna, 4x 694–960 and 8x 1695–2690 MHz, 65° HPBW, 6x RET. Antenna rear wind loading 880N @ 150km/h

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios
- Wind Loading; Frontal / Lateral / Rear 1070 / 375 / 880 N @ 150km/h

General Specifications

Antenna Type Sector

Band Multiband

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note

Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8
RF Connector Quantity, mid band 0
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 2 female | 2 male

Input Voltage 10–30 Vdc

Internal RET High band (4) | Low band (2)

Power Consumption, idle state, maximum 1 W

Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)



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Dimensions

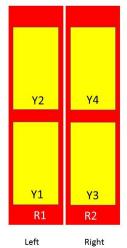
 Width
 498 mm
 | 19.606 in

 Depth
 197 mm
 | 7.756 in

Length 2688 mm | 105.827 in

Net Weight, without mounting kit $$44.5\ \mathrm{kg} \mid 98.106\ \mathrm{lb}$$

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxR2
Y1	1695-2690	5-6	3	CPxxxxxxxxxxxxXY1
Y2	1695-2690	7-8	4	CPxxxxxxxxxxxxXY2
Y3	1695-2690	9-10	5	CPxxxxxxxxxxxxXY3
Y4	1695-2690	11-12	6	CPxxxxxxxxxxxxY4

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

Port Configuration

Bottom



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

•								
Frequency Band, MHz	694-790	790-890	880-960	1695-1880	0 1850–1990	1920-2180	2300-2500	2500-2690
Gain, dBi	15.8	16.4	16.8	17	17.6	17.8	18.3	17.7
Beamwidth, Horizontal, degrees	70	67	62	59	60	61	61	69
Beamwidth, Vertical, degrees	8.1	7.4	6.8	7.5	7	6.6	5.7	5.3
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	12	16	17	20	20	20	18	16
Front-to-Back Ratio at 180°, dB	32	32	33	37	38	36	34	33
Isolation, Cross Polarization, dB	28	28	28	28	28	28	28	28
Isolation, Inter-band, dB	30	30	30	30	30	30	30	30
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

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PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	350	350	350	300	300	300	250	250
maximum, watts								

Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,070.0 N @ 150 km/h (240.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 375.0 N @ 150 km/h (84.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,385.0 N @ 150 km/h (311.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 880.0 N @ 150 km/h (197.8 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2935 mm | 115.551 in

 Weight, gross
 65.4 kg | 144.182 lb

Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



Included Products

BSAMNT-4 – 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.

BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

