# RRV4-65C-R6



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
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

#### General Specifications

Antenna Type 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

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** 2 female | 2 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



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#### Dimensions

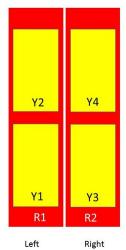
 Width
 498 mm | 19.606 in

 Depth
 197 mm | 7.756 in

 Length
 2438 mm | 95.984 in

Net Weight, antenna only 46.3 kg | 102.074 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	CPxxxxxxxxxxxxxXR2
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	CPxxxxxxxxxxxx4

(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** 900 W @ 50 °C

### **Electrical Specifications**

Frequency Band, MHz	698-806	790-896	890-960	1695-1990	1920-2300	2300-2500	2490-2690
Beamwidth, Horizontal, degrees	71	70	65	60	61	60	65
Beamwidth, Vertical, degrees	9.7	8.8	8.2	7.7	6.9	6.1	5.8
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	18	16	18	18	18	17
Front-to-Back Ratio at 180°, dB	33	35	34	37	38	35	33
Front-to-Back Total Power at 180° ± 30°, dB	20	22	24	31	29	28	27
CPR at Boresight, dB	25	25	25	20	21	17	15
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25



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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,	300	300	300	250	250	250	200

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 948.0 N @ 150 km/h (213.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 305.0 N @ 150 km/h (68.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,331.0 N @ 150 km/h (299.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 751.0 N @ 150 km/h (168.8 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
 2685 mm | 105.709 in

 Weight, gross
 66.2 kg | 145.946 lb

### Regulatory Compliance/Certifications

Agency	Classification
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-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.

BSAMNT-M – 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

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