

# V4-65A-R4VB



8-port sector antenna, 8x 1695–2690 MHz, 65° HPBW, 4x RET

- All Internal RET actuators are connected in “Cascaded SRET” configuration
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector
- All RETs have a tilt indicator rod

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Single band
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector inner conductor and body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	0
<b>RF Connector Quantity, mid band</b>	8
<b>RF Connector Quantity, low band</b>	0
<b>RF Connector Quantity, total</b>	8

## Remote Electrical Tilt (RET) Information

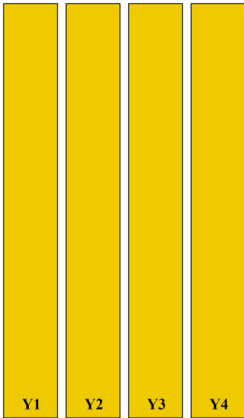
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Mid band (4)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

# V4-65A-R4VB

<b>Width</b>	497 mm   19.567 in
<b>Depth</b>	127 mm   5 in
<b>Length</b>	1397 mm   55 in
<b>Net Weight, antenna only</b>	21.1 kg   46.517 lb

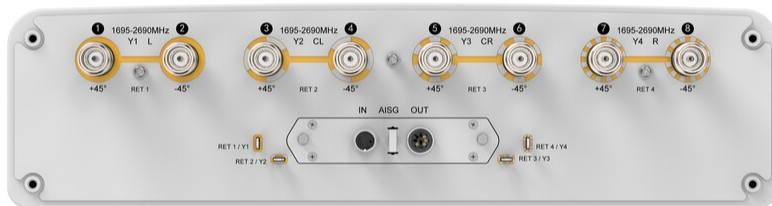
## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2690	1 - 2	65°	1	AISG1	CPXXXXXXXXXXXXX1
Y2	1695-2690	3 - 4	65°	2	AISG1	CPXXXXXXXXXXXXX2
Y3	1695-2690	5 - 6	65°	3	AISG1	CPXXXXXXXXXXXXX3
Y4	1695-2690	7 - 8	65°	4	AISG1	CPXXXXXXXXXXXXX4

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

## Port Configuration



## Electrical Specifications

# V4-65A-R4VB

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2690 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	700 W @ 50 °C

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>1695–1990</b>	<b>1920–2300</b>	<b>2300–2500</b>	<b>2490–2690</b>
<b>Beamwidth, Horizontal, degrees</b>	66	61	60	59
<b>Beamwidth, Vertical, degrees</b>	6.9	6.2	5.4	5
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	24	24	17	15
<b>Front-to-Back Ratio at 180°, dB</b>	35	35	36	33
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	27	28	28	27
<b>Isolation, Cross Polarization, dB</b>	28	28	28	28
<b>Isolation, Inter-band, dB</b>	28	28	28	28
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150	-150	-150
<b>Input Power per Port at 50°C, maximum, watts</b>	150	150	150	150

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	620.0 N @ 150 km/h (139.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	140.0 N @ 150 km/h (31.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	750.0 N @ 150 km/h (168.6 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	592 mm   23.307 in
<b>Depth, packed</b>	247 mm   9.724 in
<b>Length, packed</b>	1597 mm   62.874 in
<b>Weight, gross</b>	30.6 kg   67.461 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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# V4-65A-R4VB

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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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

BSAMNT-B95-03	–	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

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# BSAMNT-B95-03

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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.

## Product Classification

**Product Type** Downtilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 114.3 mm | 4.5 in

**Compatible Diameter, minimum** 61 mm | 2.402 in

**Weight, net** 4.5 kg | 9.921 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 2

## Regulatory Compliance/Certifications

### Agency

CE  
ISO 9001:2015

### Classification

Compliant with the relevant CE product directives  
Designed, manufactured and/or distributed under this quality management system

