

# B-65B-R1VB



2-port sector antenna, 2x 380-470MHz, 65° HPBW, 1xRET

- Antenna solution for TETRA and LTE 450 band
- With Remote Electrical Tilt (RET) functionality

## 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>Radiator Material</b>	Low loss circuit board
<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>	0
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	2

## 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>	Low band (1)
<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)

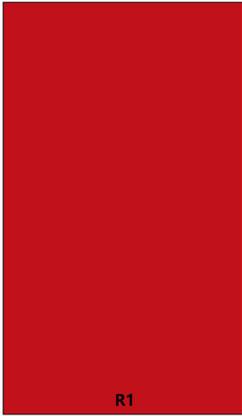
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## Dimensions

<b>Width</b>	500 mm   19.685 in
<b>Depth</b>	180 mm   7.087 in
<b>Length</b>	2002 mm   78.819 in
<b>Net Weight, antenna only</b>	23.7 kg   52.249 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
R1	380-470	1 - 2	65°	1	AISG1	CPxxxxxxxxxxxxR1

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

## Port Configuration

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	380 – 470 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	200 W

## Electrical Specifications

	<b>R1</b>	<b>R1</b>
<b>Frequency Band, MHz</b>	<b>380–430</b>	<b>430–470</b>
<b>RF Port</b>	1,2	1,2
<b>Gain, dBi</b>	13.4	13.9
<b>Beamwidth, Horizontal, degrees</b>	68	65
<b>Beamwidth, Vertical, degrees</b>	20.1	17.9
<b>Beam Tilt, degrees</b>	0–16	0–16
<b>USLS (First Lobe), dB</b>	17	16
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	25	28

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<b>Isolation, Cross Polarization, dB</b>	28	28
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-150	-150
<b>Input Power per Port, maximum, watts</b>	100	100

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	906.0 N @ 150 km/h (203.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	352.0 N @ 150 km/h (79.1 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	1,191.0 N @ 150 km/h (267.7 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	200 km/h (124 mph)

## Packaging and Weights

<b>Width, packed</b>	595 mm   23.425 in
<b>Depth, packed</b>	300 mm   11.811 in
<b>Length, packed</b>	2260 mm   88.976 in
<b>Weight, gross</b>	36 kg   79.366 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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-B89-01	-	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-B89-01



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** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 5.6 kg | 12.346 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 5.85 kg | 12.897 lb

## 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

