

# FF-45C-R1



4-port sector antenna, 4x 617–894 MHz, 45° HPBW, 1x RET

- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- High gain for maximum coverage

## 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>	0
<b>RF Connector Quantity, low band</b>	4
<b>RF Connector Quantity, total</b>	4

## Remote Electrical Tilt (RET) Information

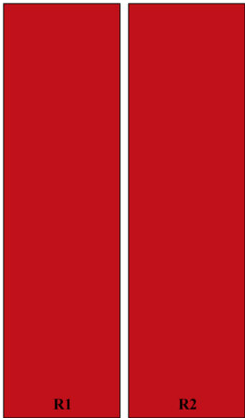
<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	1 female   1 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal RET</b>	Low band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W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

## Dimensions

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<b>Width</b>	970 mm   38.189 in
<b>Depth</b>	235 mm   9.252 in
<b>Length</b>	2438 mm   95.984 in
<b>Net Weight, without mounting kit</b>	81.8 kg   180.338 lb

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-894	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
R2	617-894	3 - 4			

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

## Port Configuration



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	617 – 894 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	600 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	617–698	698–803	817–894
<b>Gain, dBi</b>	17.5	18	18.1

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<b>Beamwidth, Horizontal, degrees</b>	48	42	39
<b>Beamwidth, Vertical, degrees</b>	10.2	9.2	7.9
<b>Beam Tilt, degrees</b>	0–10	0–10	0–10
<b>USLS (First Lobe), dB</b>	18	19	17
<b>Front-to-Back Ratio at 180°, dB</b>	42	37	36
<b>Isolation, Cross Polarization, dB</b>	25	25	25
<b>Isolation, Inter-band, dB</b>	25	25	25
<b>VSWR   Return loss, dB</b>	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
<b>Input Power per Port at 50°C, maximum, watts</b>	250	250	250

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	3,022.0 N @ 150 km/h (679.4 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	922.0 N @ 150 km/h (207.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	3,022.0 N @ 150 km/h (679.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h (150 mph)

## Packaging and Weights

<b>Width, packed</b>	1122 mm   44.173 in
<b>Depth, packed</b>	575 mm   22.638 in
<b>Length, packed</b>	2689 mm   105.866 in
<b>Weight, gross</b>	124 kg   273.373 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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-8 – Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

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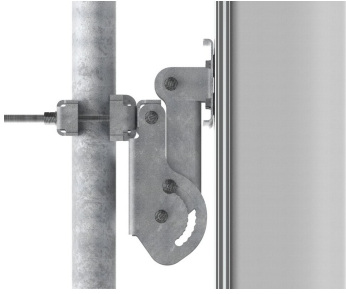
\* Footnotes

**Performance Note**

Severe environmental conditions may degrade optimum performance

# BSAMNT-8

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Wide Profile Antenna Down tilt Mounting Kit for 3.0 - 4.5 in (75 - 115mm) 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** 6 kg | 13.228 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.2 kg | 13.669 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

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