

10-port small cell antenna, 4x 1695–2690, 4x 3300-4200 and 2x 5150-5925 MHz. 45° HPBW, Internal RET and SBT

• Includes everything needed for a low to mid power 4G/5G outdoor small cell site

## General Specifications

Antenna Type Small Cell

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 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 6
RF Connector Quantity, mid band 4
RF Connector Quantity, low band 0
RF Connector Quantity, total 10

### Remote Electrical Tilt (RET) Information

**RET Interface** 8-pin DIN Male

RET Interface, quantity 1 male
Input Voltage 10-30 Vdc

**Internal Bias Tee** Port 1

Internal RET Mid band (1)

Power Consumption, active state, maximum  $10~\mathrm{W}$  Power Consumption, idle state, maximum  $1~\mathrm{W}$ 

**Protocol** 3GPP/AISG 2.0 (Single RET)



#### Dimensions

 Width
 407 mm | 16.024 in

 Depth
 120 mm | 4.724 in

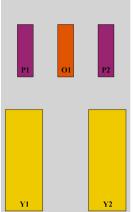
 Length
 610 mm | 24.016 in

 Net Weight, without mounting kit
 8.7 kg | 19.18 lb

### 5 GHz Port Power Table

5 GHz FCC Power Requirements								
U-NII Band	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3				
Frequency (MHz)	5150 - 5250	5250 - 5350	5470 - 5725	5725 - 5850				
Max Input power per port to align with FCC Title 47 Part 15 (Watts)	0.5	0.125	0.125	0.5				

## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG RET UID
Y1	1695-2690	1 - 2	1	ARxxxxxxxxxxxxx1
Y2	1695-2690	3 - 4	1	AKXXXXXXXXXXXX
P1	3300-4200	5 - 6	N/A	
P2	3300-4200	7 - 8		N/A
01	5150-5925	9 - 10		

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

# Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 3300 – 4200 MHz | 5150 – 5925 MHz

Polarization ±45°

Total Input Power, maximum 300 W @ 50 °C | 500 W

# **Electrical Specifications**

Frequency Band, MHz	1695-1920	1920-2180	2300-2690	3300-3550	3550-3700	3700-4200	5150-5925
Gain, dBi	14.3	15.1	15.3	10.3	10.3	10.9	3.9
Beamwidth, Horizontal, degrees	46	41	32	49	48	41	58
Beamwidth, Vertical, degrees	21	19	15.8	35.9	31.9	29.2	26.8
Beam Tilt, degrees	2-10	2-10	2-10	7	7	7	4
USLS (First Lobe), dB	24	26	24	13	12	19	21
Front-to-Back Ratio at 180°, dB	32	32	25	26	22	24	27
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25
Isolation, Inter-band, dB	28	28	28	28	28	28	28
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	-153	-153	-150	-145	-145	-145	
Input Power per Port, maximum, watts	125	125	125	50	50	50	5

# Mechanical Specifications

**Wind Loading @ Velocity, frontal** 317.0 N @ 150 km/h (71.3 lbf @ 150 km/h)

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**Wind Loading @ Velocity, lateral** 102.0 N @ 150 km/h (22.9 lbf @ 150 km/h)

 $\begin{tabular}{ll} \textbf{Wind Loading @ Velocity, rear} & 317.0 \ N \ @ \ 150 \ km/h \ (71.3 \ lbf \ @ \ 150 \ km/h) \\ \end{tabular}$ 

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

## Packaging and Weights

 Width, packed
 552 mm | 21.732 in

 Depth, packed
 292 mm | 11.496 in

 Length, packed
 789 mm | 31.063 in

 Weight, gross
 19.7 kg | 43.431 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.

### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

