

14 Port Sector Antenna, 2x698-896 MHz, 4x1695-2690 MHz 65° HPBW, and 8x3700-4000 MHz Beamformer, 3XRET and 3x SBTs

 One Low Band RET, One Mid Band RET and One High Band RET. Each RET controlled individually through internal SBTs

### General Specifications

Antenna Type Sector- and beamforming

**Band** Multiband

**Calibration Connector Interface** 4.3-10 Female

Calibration Connector Quantity 1

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 8
RF Connector Quantity, mid band 4
RF Connector Quantity, low band 2
RF Connector Quantity, total 14

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

**RET Interface** 8-pin DIN Female | 8-pin DIN Male

**RET Interface, quantity** 3 female | 3 male

Input Voltage 10-30 Vdc

Internal Bias Tee Cal Port | Port 1 | Port 3

Internal RET High band (1) | Low band (1) | Mid band (1)

COMMSC PE°

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

Power Consumption, idle state, maximum 2 W

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

**Dimensions** 

 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 1413 mm | 55.63 in

Net Weight, without mounting kit 23 kg | 50.706 lb

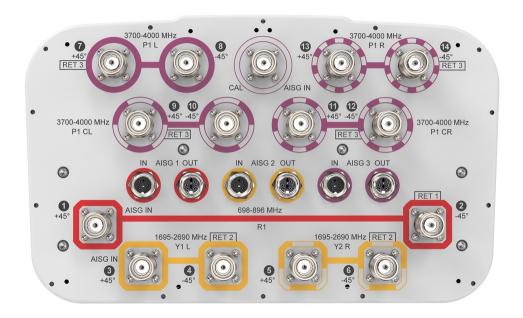
### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID	
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1	
Y1	1695-2690	3 - 4	_	AICC2	CD: a a a a a a a a a a a a a a a a a a a	
Y2	1695-2690	5 - 6	2	AISG2	CPxxxxxxxxxxxxxxY1	
P1	3700-4000	7 - 14	3	AISG3	CPxxxxxxxxxxxxxxxP1	

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

## Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 3700 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 1,000 W @ 50 °C

## **Electrical Specifications**

Frequency Band, MHz	698-806	806-896	1695-188	0 1850–199	0 1920–220	0 2300-250	0 2500-269	0 3700-4000
Gain, dBi	14	14.2	16.6	16.7	16.8	17.1	17.2	16.2
Beamwidth, Horizontal, degrees	69	67	67	66	69	69	67	83
Beamwidth, Vertical, degrees	16.9	15.2	6.7	6.2	5.8	5.4	5.1	5.8
Beam Tilt, degrees	0-18	0-18	0-10	0-10	0-10	0-10	0-10	0-10
USLS (First Lobe), dB	20	19	15	16	17	20	22	14
Front-to-Back Ratio at 180°, dB	39	36	31	36	35	33	34	30
Coupling level, Amp, Antenna port to Cal port, dB								26
Coupling level, max Amp Δ, Antenna port to Cal port, dB								±2

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Tolerance, degrees

USLS (First Lobe), dB

180° ± 30°, dB

Front-to-Back Total Power at

							0.9
							14
25	25	25	25	25	25	25	25
25	25	25	25	25	25	25	25
							19
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	1.5   14.0
-153	-153	-153	-153	-153	-150	-150	-145
300	300	250	250	250	200	200	75
ons, BA	STA						
698-806	806-896	1695-188	0 1850-199	0 1920–220	0 2300-250	0 2500-269	0 3700-4000
13.8	13.8	16.1	16.5	16.5	16.9	17	15.5
±0.4	±0.5	±0.7	±0.4	±0.4	±0.4	±0.3	±0.9
±2.9	±2.4	±7.8	±6.5	±5.7	±6.7	±6	±17.3
±1	±1	±0.4	±0.3	±0.3	±0.3	±0.3	±0.4
27	24	24	28	28	27	26	23
23	24	19	23	25	24	21	16
12	7	11	12	10	9	6	4
ons, Bro	adcast	65°					
							3700-4000
							17.2
							65
							6
							±0.3
	25  1.5 14.0 -153 300  ONS, BA 698-806 13.8 ±0.4 ±2.9 ±1 27 23 12	25 25  1.5 14.0 1.5 14.0 -153 -153 300 300  ONS, BASTA 698-806 806-896 13.8 13.8  ±0.4 ±0.5  ±2.9 ±2.4  ±1 ±1  27 24  23 24 12 7	25 25 25  1.5 14.0 1.5 14.0 1.5 14.0 -153 -153 -153 300 300 250  ONS, BASTA  698-806 806-896 1695-188 13.8 13.8 16.1  ±0.4 ±0.5 ±0.7  ±2.9 ±2.4 ±7.8  ±1 ±1 ±0.4  27 24 24  23 24 19	25 25 25 25 25    1.5 14.0	25 25 25 25 25 25 25 25 1.5 14.0 1.5 14	25 25 25 25 25 25 25 25 1514.0 1.5 14.0	25 25 25 25 25 25 25 25 25 25 25 25 25 2

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Electrical Specifications, Service (	Beam	
Frequency Band, MHz		3700-4000
Steered 0° Gain, dBi		20.8
Steered 0° Gain Tolerance, dBi		±0.8
Steered 0° Beamwidth, Horizontal, degrees		22
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB		29
Steered 0° Horizontal Sidelobe, dB		11
Steered 30° Gain, dBi		19.9
Steered 30° Beamwidth, Horizontal, degrees		27
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB		27
Electrical Specifications, Soft Spli	t	
Frequency Band, MHz		3700-4000
Gain, dBi		19.2
Beamwidth, Horizontal, degrees		33
Front-to-Back Total Power at 180° ± 30°, dB		26
Horizontal Sidelobe, dB		15
Mechanical Specifications		
Wind Loading @ Velocity, frontal	224.0 N @ 150 km/h (50.4 lbf @ 150 km/h)	
Wind Loading @ Velocity, lateral	187.0 N @ 150 km/h (42.0 lbf @ 150 km/h)	
Wind Loading @ Velocity, maximum	474.0 N @ 150 km/h (106.6 lbf @ 150 km/h)	
Wind Loading @ Velocity, rear	237.0 N @ 150 km/h (53.3 lbf @ 150 km/h)	
Wind Speed, maximum	241 km/h (150 mph)	
Packaging and Weights		
Width, packed	448 mm   17.638 in	
Depth, packed	355 mm   13.976 in	
Length, packed	1557 mm   61.299 in	
Weight, gross	33.4 kg   73.634 lb	

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## Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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



# 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.

#### **Product Classification**

**Product Type** Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net6.2 kg | 13.669 lb

Material Specifications

Material Type Galvanized steel

## Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

**Weight, gross** 6.4 kg | 14.11 lb

#### Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	$\label{thm:constraint} \mbox{Designed, manufactured and/or distributed under this quality management system}$
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant





