

16-port sector antenna, 4x 698-896 MHz and 4x 1695-2360 MHz, 65° HPBW, and 8x 3400-4000 MHz, 90° HPBW, 5x RETs

- Multi-band FDD antenna featuring C-Band 8T8R functionality
- The C-band RET is factory set to AISG2. All other RET are assigned to AISG1
- Feature the same dimensions as existing 8 and 12-port FDD capable antennas
- New endcap designs provide improved wind loading performance

#### General Specifications

Antenna Type Sector and beamforming

**Band** Multiband

**Calibration Connector Interface** 4.3-10 Female

Calibration Connector Quantity

Color Light Gray (RAL 7035)

**Grounding Type**RF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

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

**RF Connector Quantity, total** 16

## Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

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

**RET Interface, quantity** 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (2) | Mid band (2)

Power Consumption, active state, maximum 8 W



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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

**Dimensions** 

 Width
 498 mm | 19.606 in

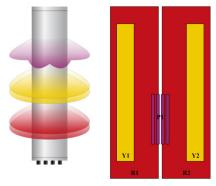
 Depth
 197 mm | 7.756 in

 Length
 1499 mm | 59.016 in

 Net Weight, antenna only
 33 kg | 72.752 lb

 TDD Column Spacing
 41 mm | 1.614 in

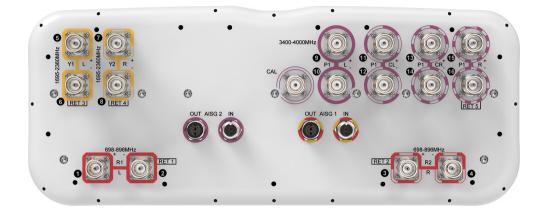
## Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	694-896	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1
R2	694-896	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxMM.4
P1	3400-4000	9 - 16	5	AISG2	CPxxxxxxxxxxxxMM.1

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

## Port Configuration



## **Electrical Specifications**



**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 3400 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 1,400 W @ 50 °C

## **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1	P1
Frequency Band, MHz	698-806	806-896	1695-188	0 1850–199	0 1920-218	0 2300–236	0 3400-380	0 3700-4000
RF Port	1-4	1-4	5-8	5-8	5-8	5-8	9-16	9-16
Gain, dBi	13.6	14	16.9	17.4	17.9	18.3	16.4	16.6
Beamwidth, Horizontal, degrees	59	53	60	60	62	62	83	70
Beamwidth, Vertical, degrees	17.1	15.1	6.3	5.8	5.5	5	6.1	5.8
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12	0-10	0-10
USLS (First Lobe), dB	19	14	18	19	19	19	15	14
Front-to-Back Ratio at 180°, dB	29	29	31	34	34	31	29	30
Coupling level, Amp, Antenna port to Cal port, dB							-26	-26
Coupling level, max Amp $\Delta$ , Antenna port to Cal port, dB							±2	±2
Coupler, max Amp Δ, Antenna port to Cal port, dB							0.6	0.6
Coupler, max Phase $\Delta$ , Antenna port to Cal port, degrees							7	7
CPR at Boresight, dB	22	21	19	20	19	20	15	14
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB							19	19
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	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	250	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz 3400-3800 3700-4000

ANDREW® an Amphenol company

Effective Projective Area (EPA), lateral

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Gain, dBi	18.3	18.9
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	6.2	5.9
Front-to-Back Total Power at	26	26
180° ± 30°, dB	17	17
USLS (First Lobe), dB	17	17
Electrical Specifications, Envelope Pattern		
Frequency Band, MHz		800 3700-4000
Gain, dBi	21.1	21.6
Electrical Specifications, Service Beam		
Frequency Band, MHz	3400-3	800 3700-4000
Steered 0° Gain, dBi	21.3	21.6
Steered 0° Beamwidth, Horizontal, degrees	24	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	29	29
Steered 0° Horizontal Sidelobe, dB	14	14
Steered 30° Gain, dBi	19.7	20.1
Steered 30° Beamwidth, Horizontal, degrees	29	26
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28	27
Electrical Specifications, Soft Split		
Frequency Band, MHz	3400-3	800 3700-4000
Gain, dBi	19.6	19.9
Beamwidth, Horizontal, degrees	33	30
Front-to-Back Total Power at 180° ± 30°, dB	28	27
Horizontal Sidelobe, dB	17	16
Mechanical Specifications		
Effective Projective Area (EPA), frontal 0.47 m <sup>2</sup>   5.059 ft <sup>2</sup>		

0.14 m<sup>2</sup> | 1.507 ft<sup>2</sup>



 Wind Loading @ Velocity, frontal
 498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 342.0 N @ 150 km/h (76.9 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

## Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 1686 mm | 66.378 in

 Weight, gross
 43.3 kg | 95.46 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
REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



#### Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

#### \* Footnotes

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



# BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

#### Product Classification

**Product Type** Fixed tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

**Dimensions** 

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

#### Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

**Weight, gross** 4 kg | 8.818 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
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 www.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



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