

# 8-port sector antenna, 4x 698-896 and 4x 1695-2360 MHz, $45^{\circ}$ HPBW, 4x RET

Interleaved dipole technology providing for attractive, low wind load mechanical package

### General Specifications

Antenna Type Sector

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 4
RF Connector Quantity, low band 4
RF Connector Quantity, total 8

#### Remote Electrical Tilt (RET) Information

**RET Hardware** CommRET v2

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

**RET Interface, quantity** 1 female | 1 male

Input Voltage 10-30 Vdc

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

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0

**Dimensions** 

**Width** 457 mm | 17.992 in

Page 1 of 6

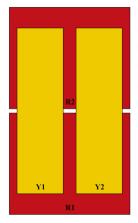
**Depth** 178 mm | 7.008 in

**Length** 1399 mm | 55.079 in

Net Weight, antenna only 26 kg | 57.32 lb

TDD Column Spacing 210 mm | 8.268 in

### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG RET UID
R1	698-896	1 - 2	1	CPxxxxxxxxxxxMM.1
R2	698-896	3 - 4	2	CPxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	CPxxxxxxxxxxxMM.4

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

# Port Configuration



## **Electrical Specifications**

**Impedance** 50 ohm

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

Polarization ±45°

**Total Input Power, maximum** 1,000 W

**COMMSCOPE®** 

# **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
RF Port	1-4	1-4	5-8	5-8	5-8	5-8
Gain, dBi	12.7	13.4	17.4	18	18.6	19
Gain at Mid Tilt, dBi	12.2	13.2	17	17.8	18.4	18.9
Beamwidth, Horizontal, degrees	48	43	45	43	41	38
Beamwidth, Vertical, degrees	35.6	30.5	8.3	7.7	7.3	6.5
Beam Tilt, degrees	2-18	2-18	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	20	19	20	21	21	21
Front-to-Back Ratio at 180°, dB	29	32	36	36	38	37
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25
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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200

# Electrical Specifications, BASTA

	,					
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360
Gain by all Beam Tilts, average, dBi	12.2	13.2	16.9	17.7	18.2	18.7
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.4	±0.8	±0.5	±0.6	±0.5
Gain by Beam Tilt, average, dBi	2° 12.3 10° 12.2 18° 12.1	2° 13.3 10° 13.2 18° 13.0	2° 17.1 7° 17.0 12° 16.5	2° 17.8 7° 17.8 12° 17.4	2° 18.3 7° 18.4 12° 17.9	2° 18.9 7° 18.9 12° 18.2
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±5	±3	±2	±2
Beamwidth, Vertical Tolerance, degrees	±2.2	±2.4	±0.5	±0.3	±0.4	±0.2
USLS, beampeak to 20° above beampeak, dB			14	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	22	24	28	30	30	30

Mechanical Specifications

Page 3 of 6

 Wind Loading @ Velocity, frontal
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 159.0 N @ 150 km/h (35.7 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 788.0 N @ 150 km/h (177.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 692.0 N @ 150 km/h (155.6 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 526 mm | 20.709 in

 Depth, packed
 283 mm | 11.142 in

 Length, packed
 1566 mm | 61.654 in

 Weight, gross
 35.7 kg | 78.705 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

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.commscope.com/ProductCompliance

ROHS Compliant

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

**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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

COMMSCOPE®



