

12-port sector antenna, 4x 698-896 and 8x 1695-2360 MHz, 65° HPBW, 6x RET.

• The antenna is supplied with mounting kits that provide 0 degree of mechanical downtilt; optional downtilt mounting kits are available

### General Specifications

Antenna Type Sector

Band Multiband

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

bracket

Performance NoteOutdoor usageRF Connector Interface4.3-10 Female

**RF Connector Location** Bottom

RF Connector Quantity, mid band 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 12

### 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 Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 WPower Consumption, idle state, maximum 1 W

**Protocol** 3GPP/AISG 2.0 (Multi-RET)

#### **Dimensions**

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

 Length
 2438 mm | 95.984 in

 Net Weight, antenna only
 65.5 kg | 144.403 lb

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## Array Layout



Array	Freq (MHz)	Conns	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	CPxxxxxxxxxxxxxxxxmm.1
R2	698-896	3-4	2	CPxxxxxxxxxxxxxxxxxmm.2
Y1	1695-2360	5-6	3	CPxxxxxxxxxxxxxxxmm.3
Y2	1695-2360	7-8	4	CPxxxxxxxxxxxxxxxxmm.4
Y3	1695-2360	9-10	5	CPxxxxxxxxxxxxxxxmm.5
Y4	1695-2360	11-12	6	CPxxxxxxxxxxxxxxxxmm.6

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

# Port Configuration

Bottom



## **Electrical Specifications**

**Impedance** 

50 ohm

**Operating Frequency Band** 

1695 - 2360 MHz | 698 - 896 MHz

**COMMSCOPE®** 

Polarization

Total Input Power, maximum  $900~\mathrm{W} \ @ \ 50~\mathrm{^{\circ}C}$ 

### **Electrical Specifications**

	R1,R2	R1,R2	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4	Y1,Y2,Y3,Y4
Frequency Band, MHz	698-806	824-896	1695-1880	1850-1990	1920-2200	2300-2360
RF Port	1,2,3,4	1,2,3,4	5-12	5-12	5-12	5-12
Gain, dBi	16.3	16.9	19.5	19.8	20	20
Beamwidth, Horizontal, degrees	68	64	60	59	60	64
Beamwidth, Vertical, degrees	9.5	8.2	4.3	4	3.8	3.5
Beam Tilt, degrees	0-10	0-10	0-7	0-7	0-7	0-7
USLS (First Lobe), dB	18	19	22	24	21	21
Front-to-Back Ratio at 180°, dB	32	32	35	34	33	35
Front-to-Back Total Power at 180° ± 30°, dB	24	25	28	27	26	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	200	200	200	200	200	150

±45°

## Electrical Specifications, BASTA

Frequency Band, MHz	698-806	824-896	1695-1880	1850-1990	1920-2200	2300-2360
CPR at Boresight, dB	20	22	24	26	25	26

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 1,055.0 N @ 150 km/h (237.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 355.0 N @ 150 km/h (79.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,433.0 N @ 150 km/h (322.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 1,086.0 N @ 150 km/h (244.1 lbf @ 150 km/h)

 Wind Coased maximum
 241.4 km/h (150 maxh)

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

Packaging and Weights

COMMSCOPE®

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 83.8 kg | 184.747 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-3F — 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

