

24-port sector antenna, 4x 694–960, 4x 1427–1518, 4x 1695-2180, 4x 2490-2690 65° HPBW and 8x 3300-3800 MHz, 7x RET

- Integrated with a calibration board
- Optimized for Software Defined Split 6 Sector applications
- 2 columns for 694-960 MHz and 2 columns for 1427-1518 / 1695-2180 / 2490-2690 MHz and 4 columns for 3300-3800 MHz
- Seven internal RETs control the antenna arrays

#### General Specifications

Antenna Type Sector

**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

Radiator Material Aluminum | Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 4.3-10 Female

RF Connector Location Bottom
RF Connector Quantity, high band 20

RF Connector Quantity, low band 4

RF Connector Quantity, total 24

### 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 (5) | Low band (2)

Power Consumption, idle state, maximum 1 W

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Power Consumption, normal conditions, maximum 8 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

 Width
 498 mm | 19.606 in

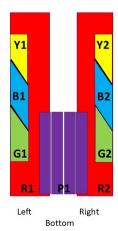
 Depth
 197 mm | 7.756 in

**Length** 1499 mm | 59.016 in

Net Weight, without mounting kit 39.2 kg | 86.421 lb

**TDD Column Spacing** 42 mm | 1.654 in

### Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	694-960	1-2	1	CPxxxxxxxxxxxxxxXR1
R2	694-960	3-4	2	CPxxxxxxxxxxxxxxxXR2
G1	1427-1518	5-6	3	CPxxxxxxxxxxxxxxG1
G2	1427-1518	7-8	3 CPXXXXXXXXXXXX	CPXXXXXXXXXXXXXXX
B1	1695-2180	9-10	4	CPxxxxxxxxxxxxxxB1
B2	1695-2180	11-12	5	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	13-14	6	CPxxxxxxxxxxxxxxXY1
Y2	2490-2690	15-16		CPXXXXXXXXXXXXXXXX
P1	3300-3800	17-24	7	CPxxxxxxxxxxxxxxP1

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

COMMSCOPE"

## Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1427 – 1518 MHz | 1695 – 2180 MHz | 2496 – 2690 MHz | 3300

– 3800 MHz | 694 – 960 MHz

Polarization ±45°

**Total Input Power, maximum** 900 W @ 50 °C

## **Electrical Specifications**

•							
	R1-R2	R1-R2	R1-R2	G1-G2	B1-B2	Y1-Y2	P1
Frequency Band, MHz	694-790	790-890	890-960	1427-1518	1695-2180	2490-2690	3300-3800
Gain, dBi	13.4	13.5	13.8	14.9	15.9	16.8	15.9
Beamwidth, Horizontal, degrees	60	60	60	59	68	57	91
Beamwidth, Vertical, degrees	17.2	15.8	15	8.1	6.5	4.9	6.5
Beam Tilt, degrees	2-16	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	21	17	17	17	17	16	16
Front-to-Back Ratio at 180°, dB	30	29	29	31	29	30	28
Coupling level, Amp, Antenna port to Cal port, dB							26

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						±2
						0.9
						9
26	26	26	25	25	25	25
26	26	26	28	28	28	20
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
-150	-150	-150	-150	-150	-150	-145
300	300	300	250	250	150	75
ons, BAS	STA					
694-790	790-890	890-960	1427-1518	1695-2180	2490-2690	3300-3800
13.1	13.1	13.5	14.5	15.3	16.2	15.2
±0.6	±0.6	±0.4	±0.8	±0.8	±0.9	±0.8
2° 13.2 9° 13.1 16° 12.9	2° 13.2 9° 13.2 16° 12.9	2° 13.5 9° 13.6 16° 13.4	2° 14.3 7° 14.5 12° 14.5	2° 14.8 7° 15.6 12° 15.6	2° 15.5 7° 16.6 12° 16.3	2° 15.0 7° 15.4 12° 15.2
±8.4	±6.8	±5.2	±5	±5.5	±4.6	±19.2
±1.1	±1.2	±1.1	±0.5	±0.8	±0.3	±0.6
16	16	15	13	15	13	14
20	19	21	24	23	25	21
20	19	19	13	18	16	15
ons, Broa	adcast 6!	ō°				
						3300-3800
						16.5
						63
						6.6
	26 1.5 14.0 -150 300  ONS, BAS 694-790 13.1 ±0.6  2° 13.2 9° 13.1 16° 12.9 ±8.4 ±1.1  16 20 20	26 26  1.5 14.0 1.5 14.0  -150 -150  300 300  ONS, BASTA  694-790 790-890  13.1 13.1  ±0.6 ±0.6  2° 13.2 2° 13.2 9° 13.1 16° 12.9 16° 12.9 ±8.4 ±6.8  ±1.1 ±1.2  16 16  20 19  20 19	26 26 26  1.5 14.0 1.5 14.0 1.5 14.0  -150 -150 -150  300 300 300  ONS, BASTA  694-790 790-890 890-960  13.1 13.1 13.5  ±0.6 ±0.6 ±0.4  2° 13.2 2° 13.2 9° 13.6 16° 12.9 16° 13.4 16° 12.9 16° 13.4 ±5.2  ±1.1 ±1.2 ±1.1  16 16 15  20 19 21	26	26	26

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Electrical Specifications,	Service Beam
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3300-3800
20.6
24
27
15
19.7
27
26

## Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3800
Gain, dBi	19.6
Beamwidth, Horizontal, degrees	32
CPR at Beampeak, dB	16
Front-to-Back Total Power at 180° ± 30°, dB	26
Horizontal Sidelobe, dB	19

### Mechanical Specifications

Mechanical Tilt Range	0°-15°
Wind Loading @ Velocity, frontal	549.0 N @ 150 km/h (123.4 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	183.0 N @ 150 km/h (41.1 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	712.0 N @ 150 km/h (160.1 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	452.0 N @ 150 km/h (101.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

## Packaging and Weights

Width, packed	608 mm   23.937 in
Depth, packed	352 mm   13.858 in
Length, packed	1682 mm   66.221 in

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**Weight, gross** 50.6 kg | 111.554 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



#### 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

**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	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









