

24-Port antenna, 8 x 698-896 MHz,  $16 \times 1710-2400$  MHz,  $33^{\circ}$  HPBW,  $6 \times RETs$ ,  $4 \times SBTs$ ,  $8 \times 698-896$  MHz,  $16 \times 1710-2400$  MHz,  $33^{\circ}$  HPBW,  $6 \times RETs$ ,  $4 \times SBTs$ ,  $8 \times 1710-2400$  MHz,  $8 \times 1710-2400$  MHz,

- Provides 4T4R capability in low and mid bands
- Full spectrum operation for Band 14, AWS, PCS and WCS bands
- Twin beam patterns are optimized for minimum beam crossover providing for improved LTE data throughput

#### General Specifications

Antenna Type Multibeam

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, mid band 16
RF Connector Quantity, low band 8
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** 4 female | 4 male

Input Voltage 10-30 Vdc

Internal Bias Tee Port 1 | Port 17 | Port 5 | Port 9

Internal RET Low band (2) | Mid band (4)

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

COMMSC PE®

Protocol 3GPP/AISG 2.0 (Multi-RET)

**Dimensions** 

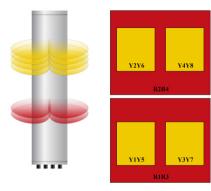
**Width** 640 mm | 25.197 in

**Depth** 235 mm | 9.252 in

**Length** 2438 mm | 95.984 in

Net Weight, antenna only 73.5 kg | 162.04 lb

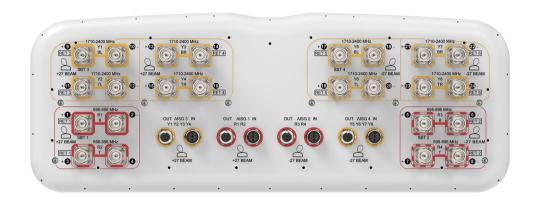
#### Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)		SBT RF PORT	SBT No.	RET UID	
R1	698-896	1 - 2		NICCA			60	
R2	698-896	3 - 4	1	AISG1	1	1	CPxxxxxxxxxxxxxxxR1	
R3	698-896	5 - 6	_	2 AISG2	5	2	CPxxxxxxxxxxxxxxx	
R4	698-896	7 - 8	1 2					
Y1	1710-2400	9 - 10				_		
Y2	1710-2400	11 - 12	3	AISG3	9	3	CPxxxxxxxxxxxxxY1	
Y3	1710-2400	13 - 14						
Y4	1710-2400	15 - 16	4	AISG3		8	CPxxxxxxxxxxxxxxXY3	
Y5	1710-2400	17 - 18	_					
Y6	1710-2400	19 - 20	5	5 AISG4	17	4	CPxxxxxxxxxxxxxxx	
Y7	1710-2400	21 - 22						
Y8	1710-2400	23 - 24	6	AISG4			CPxxxxxxxxxxxxxx	

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

## Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2400 MHz | 698 – 896 MHz

Polarization ±45°

**Total Input Power, maximum** 2,000 W @ 50 °C

### **Electrical Specifications**

	R1-R4	R1-R4	Y1-Y8	Y1-Y8	Y1-Y8	Y1-Y8
Frequency Band, MHz	698-806	824-896	1710-1880	1850-1990	1920-2200	2300-2400
RF Port	1-8	1-8	9-24	9-24	9-24	9-24
Gain, dBi	15.1	15.8	17	18	18.7	19.2
Beam Centers, Horizontal, degrees	±27	±27	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	40	37	35	33	31	29
Beamwidth, Vertical, degrees	19.3	17.2	7.9	7.5	7.2	6.4
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	18	16	17	18	17

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Front-to-Back Ratio at 180°, dB	27	33	34	35	34	33
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	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	250

### Electrical Specifications, BASTA

Frequency Band, MHz	698-806	824-896	1710-1880	1850-1990	1920-2200	2300-2400
Gain by all Beam Tilts, average, dBi	14.6	15.6	16.3	17.5	18	18.4
Gain by all Beam Tilts Tolerance, dB	±0.8	±0.3	±1.1	±0.7	±0.8	±1
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±2	±2	±2	±2
Beamwidth, Vertical Tolerance, degrees	±1.2	±1	±0.4	±0.4	±0.5	±0.4
Front-to-Back Total Power at 180° ± 30°, dB	22	28	28	29	29	28
CPR at Boresight, dB	18	19	15	15	15	16

#### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 987.0 N @ 150 km/h (221.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 291.0 N @ 150 km/h (65.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 1,257.0 N @ 150 km/h (282.6 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 616.0 N @ 150 km/h (138.5 lbf @ 150 km/h)

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

#### Packaging and Weights

 Width, packed
 752 mm | 29.606 in

 Depth, packed
 382 mm | 15.039 in

 Length, packed
 2590 mm | 101.969 in

 Weight, gross
 96 kg | 211.644 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-4 – 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.

BSAMNT-M4 – Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round

members. Kit contains one scissor bracket set.

#### \* Footnotes

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



# BSAMNT-4



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, net6.5 kg | 14.33 lb

Material Specifications

Material Type Galvanized steel

### Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

#### 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





### BSAMNT-M4



Middle Downtilt Mounting Kit for Long Antennas for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor 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, net4.6 kg | 10.141 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow 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



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