

12-port sector antenna, 4x 617-894 and 8x 1695–2690 MHz, 65° HPBW, 3x RET

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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 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 High band (2) | Low band (1)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 640 mm | 25.197 in

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 Depth
 235 mm | 9.252 in

 Length
 1224 mm | 48.189 in

Net Weight, without mounting kit 36 kg | 79.366 lb

Array Layout



Bottom

Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID		
R1	617-894	1-2	1	CDvvvvvvvvvvvvvvvvv		
R2	617-894	3-4	1	CPxxxxxxxxxxxxXR1		
Y1	1695-2690	5-6	2	CD::::::::::::::::::::::::::::::::::::		
Y2	1695-2690	7-8	2	CPxxxxxxxxxxxxxXY1		
Y3	1695-2690	9-10	2	CD:sanagananana V2		
Y4	1695-2690	11-12	3	CPxxxxxxxxxxxxxxY2		

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

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 617 – 894 MHz

Polarization ±45°

Total Input Power, maximum 900 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	617-698	698-806	806-894	1695-188	0 1850-199	0 1920–220	0 2300-250	0 2500-2690
Gain, dBi	12.6	13	13.1	16.4	16.9	17.6	17.6	18.1
Beamwidth, Horizontal, degrees	67	65	63	62	61	60	59	58
Beamwidth, Vertical, degrees	21.9	19.4	19.1	7.7	7.3	6.7	5.9	5.6
Beam Tilt, degrees	5-22	5-22	5-18	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	13	17	15	15	17	19	18	18
Front-to-Back Ratio at 180°, dB	26	31	28	31	29	27	27	29

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Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C,	250	250	200	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	1695-188	0 1850–199	0 1920-220	0 2300-250	0 2500-2690
Gain by all Beam Tilts, average, dBi	12.1	12.5	12.5	15.9	16.5	16.8	17.1	17.6
Gain by all Beam Tilts Tolerance, dB	±0.6	±0.7	±0.7	±0.7	±0.5	±0.8	±0.6	±0.6
Gain by Beam Tilt, average, dBi	5° 12.4 14° 12.1 22° 11.8	5° 12.8 14° 12.5 22° 11.9	5° 12.9 12° 12.6 18° 12.2	2° 16.1 7° 15.9 12° 15.6	2° 16.6 7° 16.5 12° 16.2	2° 16.8 7° 16.9 12° 16.7	2° 17.2 7° 17.3 12° 16.8	2° 17.7 7° 17.7 12° 17.1
Beamwidth, Horizontal Tolerance, degrees	±4.5	±5.7	±7.7	±4.6	±6.2	±7.3	±6.8	±8.5
Beamwidth, Vertical Tolerance, degrees	±2.3	±1.8	±3.6	±0.5	±0.5	±0.7	±0.4	±0.4
USLS, beampeak to 20° above beampeak, dB				13	15	16	15	15
Front-to-Back Total Power at 180° ± 30°, dB	20	20	20	25	24	23	24	23
CPR at Boresight, dB	16	16	16	18	22	19	16	17
CPR at Sector, dB	7	8	7	7	8	5	6	7

Mechanical Specifications

Effective Projective Area (EPA), frontal0.47 m² | 5.059 ft²Effective Projective Area (EPA), lateral0.15 m² | 1.615 ft²

Mechanical Tilt Range 0°-15°

 Wind Loading @ Velocity, frontal
 505.0 N @ 150 km/h (113.5 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 156.0 N @ 150 km/h (35.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 688.0 N @ 150 km/h (154.7 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
 752 mm | 29.606 in

 Depth, packed
 387 mm | 15.236 in

 Length, packed
 1379 mm | 54.291 in

 Weight, gross
 53 kg | 116.845 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



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 1

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









