

4-port multibeam antenna, 4x 1695–2400 MHz, 2x 38° HPBW, 2x RET

- Enhances network capacity through six sectors site application with only three antenna faces
- Maximizes frequency spectrum utilization to increase Average Revenue Per User (ARPU)
- Reduces antenna count to minimize Cap-Ex and Op-Ex costs
- High gain with excellent sector edge roll-off and azimuth sidelobe suppression
- Each antenna downtilt can be independently adjusted for greater flexibility in network optimization

General Specifications

Antenna Type Multibeam

Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

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, total 4

Remote Electrical Tilt (RET) Information

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

RET Interface, quantity 2 female | 2 male

Input Voltage10-30 VdcInternal RETHigh band (2)

Power Consumption, idle state, maximum 2 W
Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

COMMSC PE®

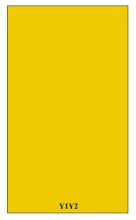
Width 350 mm | 13.78 in

Depth 208 mm | 8.189 in

Length 1400 mm | 55.118 in

Net Weight, without mounting kit 17.6 kg | 38.801 lb

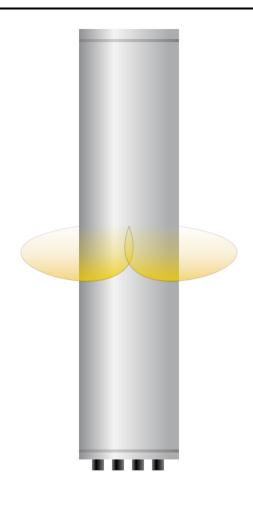
Array Layout



Array ID	Frequency (MHz)	RF Connector	HPBW	RET (SRET)	AISG No.	AISG RET UID
Y1	1695-2400	1 - 2	33°	1	AISG1	CPxxxxxxxxxxxxxY1
Y2	1695-2400	3 - 4	33°	2	AISG1	CPxxxxxxxxxxxxxY2

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

Beams Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2400 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400
Gain, dBi	19.1	19.6	19.9	19.1
Beam Centers, Horizontal, degrees	±27	±27	±27	±27
Beamwidth, Horizontal, degrees	38	35.8	34	30
Beamwidth, Vertical, degrees	7.5	7	6.5	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12

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USLS (First Lobe), dB	20	20	19	18
Front-to-Back Ratio at 180°, dB	34	37	37	30
Isolation, Cross Polarization, dB	28	28	28	28
Isolation, Inter-band, dB	16	16	16	16
VSWR Return loss, dB	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
Input Power per Port, maximum,	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1990	1920-2180	2300-2400
Gain by all Beam Tilts, average, dBi	18.7	19.3	19.6	18.7
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.4	±0.6	±0.6
Gain by Beam Tilt, average, dBi	2 ° 18.6 7 ° 18.8 12 ° 18.6	2° 19.1 7° 19.4 12° 19.2	2° 19.5 7° 19.8 12° 19.0	2° 19.0 7° 18.8 12° 18.3
Beamwidth, Horizontal Tolerance, degrees	±1.3	±1.3	±2.2	±1.7
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.3	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	14	15	15	15
Front-to-Back Total Power at 180° ± 30°, dB	28	29	27	24
CPR at Boresight, dB	23	24	19	13

Mechanical Specifications

Wind Loading @ Velocity, frontal	221.0 N @ 150 km/h (49.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	185.0 N @ 150 km/h (41.6 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	469.0 N @ 150 km/h (105.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	234.0 N @ 150 km/h (52.6 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	447 mm 17.598 in
Depth, packed	354 mm 13.937 in
Length, packed	1544 mm 60.787 in
Weight, gross	30 kg 66.139 lb

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Regulatory Compliance/Certifications

Agency Classification

CE Compliant with the relevant CE product directives

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-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	$\label{thm:constraint} \mbox{Designed, manufactured and/or distributed under this quality management system}$
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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