

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 Type RF 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, mid band 0

RF Connector Quantity, low band 0

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 Voltage 10-30 Vdc
Internal RET High band (2)

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

ANDREW®
an Amphenol company

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

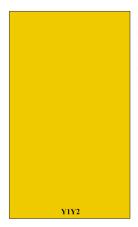
 Width
 350 mm | 13.78 in

 Depth
 208 mm | 8.189 in

 Length
 1400 mm | 55.118 in

Net Weight, without mounting kit 17.6 kg | 38.801 lb

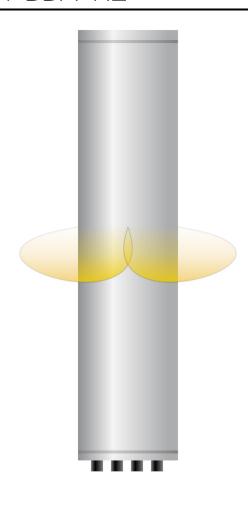
Array Layout



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	CPxxxxxxxxxxxxxxY2	

(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, watts	250	250	250	250

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

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