

16-port sector antenna, 4x 698-896 MHz and 4x 1695-2360 MHz, 65° HPBW, and 8x 3400-4000 MHz, 90° HPBW, 5x RETs

- Multi-band FDD antenna featuring C-Band 8T8R functionality
- The C-band RET is factory set to AISG2. All other RET assigned to AISG1
- Feature the same dimensions as existing 8 and 12-port FDD capable antennas
- New endcap designs provide improved wind loading performance

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity

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

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 8

RF Connector Quantity, mid band 4

RF Connector Quantity, low band 4
RF Connector Quantity, total 16

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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 (1) | Low band (2) | Mid band (2)

Power Consumption, active state, maximum 8 W

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Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 498 mm | 19.606 in

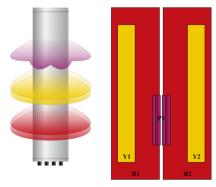
 Depth
 197 mm | 7.756 in

 Length
 1848 mm | 72.756 in

 Net Weight, antenna only
 37.9 kg | 83.555 lb

TDD Column Spacing 41 mm | 1.614 in

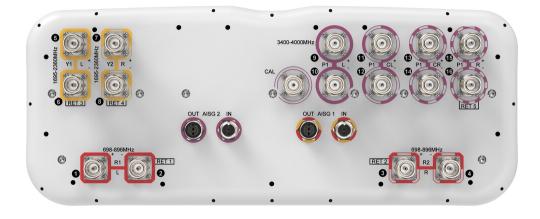
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	694-896	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1
R2	694-896	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxMM.4
P1	3400-4000	9 - 16	5	AISG2	CPxxxxxxxxxxxxMM.1

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

Port Configuration



Electrical Specifications



Impedance 50 ohm

Operating Frequency Band 1695 – 2360 MHz | 3400 – 4000 MHz | 698 – 896 MHz

Polarization ±45°

Total Input Power, maximum 1,500 W @ 50 °C

Electrical Specifications

	R1,R2	R1,R2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	P1	P1
Frequency Band, MHz	698-806	806-896	1695-188	0 1850-199	0 1920-218	0 2300-236	0 3400–380	0 3700-4000
RF Port	1-4	1-4	5-8	5-8	5-8	5-8	9-16	9-16
Gain, dBi	14.6	15.1	17.6	17.8	18.3	18.5	16.2	16.4
Beamwidth, Horizontal, degrees	72	64	58	58	59	59	83	73
Beamwidth, Vertical, degrees	12.2	10.6	6.3	5.8	5.5	5.1	6.1	5.7
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	0-10	0-10
USLS (First Lobe), dB	19	16	17	17	18	17	15	14
Front-to-Back Ratio at 180°, dB	28	28	34	35	35	33	23	29
Coupling level, Amp, Antenna port to Cal port, dB							-26	-26
Coupling level, max Amp Δ , Antenna port to Cal port, dB							±2	±2
Coupler, max Amp Δ , Antenna port to Cal port, dB							0.6	0.6
Coupler, max Phase Δ , Antenna port to Cal port, degrees							5	5
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25
Isolation, Co-polarization, dB							19	19
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	-150	-150	-150	-150	-150	-145	-145
Input Power per Port at 50°C, maximum, watts	300	300	250	250	250	200	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz 3400-3800 3700-4000

Gain, dBi 18.3

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Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	6.1	5.8
Front-to-Back Total Power at 180° ± 30°, dB	27	28
USLS (First Lobe), dB	17	18
Electrical Specifications, Envelope Pattern		
Frequency Band, MHz	3400-3	800 3700-4000
Gain, dBi	21.1	21.5
Beamwidth, Horizontal at 10 dB, degrees	118	117
Front-to-Back Total Power at 180° ± 30°, dB	29	29
USLS (First Lobe), dB	20	22
Electrical Specifications, Service Beam		
Frequency Band, MHz	3400-3800 3700-4000	
Steered 0° Gain, dBi	21.1	21.4
Steered 0° Beamwidth, Horizontal, degrees	24	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	30	29
Steered 0° Horizontal Sidelobe, dB	14	13
Steered 30° Gain, dBi	19.9	20.5
Steered 30° Beamwidth, Horizontal, degrees	29	25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28	28
Electrical Specifications, Soft Split		
Frequency Band, MHz	3400-3	800 3700-4000
Gain, dBi	19.8	20.2
Beamwidth, Horizontal, degrees	32	28
Front-to-Back Total Power at 180° ± 30°, dB	28	28
Horizontal Sidelobe, dB	18	17



Mechanical Specifications

Effective Projective Area (EPA), frontal 0.59 m² | 6.351 ft²

Effective Projective Area (EPA), lateral 0.18 m² | 1.938 ft²

 Wind Loading @ Velocity, frontal
 629.0 N @ 150 km/h (141.4 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 191.0 N @ 150 km/h (42.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 433.0 N @ 150 km/h (97.3 lbf @ 150 km/h)

Wind Speed, maximum 241.4 km/h (150 mph)

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 309 mm | 12.165 in

 Length, packed
 2035 mm | 80.118 in

 Weight, gross
 49.1 kg | 108.247 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

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



Included Products

BSAMNT-2F – Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

* Footnotes

Performance NoteSevere environmental conditions may degrade optimum performance



BSAMNT-2F



Mounting bracket for cylindrical pipe installations (60-115mm pipe diameter) for fix mechanical tilt applications.

Product Classification

Product Type Fixed tilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum115 mm | 4.528 inCompatible Diameter, minimum60 mm | 2.362 inWeight, net3.8 kg | 8.378 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4 kg | 8.818 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.andrew.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



