

20-port sector antenna, 4x 698-896 and 8x 1695-2360 MHz, 65° HPBW, and 8x 3400-4000 MHz, 90° HPBW, 7x RET

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

Alternative products available:

NNH4S4-65B-R4B-V1

20-port sector antenna, 4x 698-896 and 8x 1695-2360 MHz, 65° HPBW, and 8x 3400-4000 MHz, 90° HPBW. 4x RET

General Specifications

Antenna Type Sector and beamforming

Band Multiband

Calibration Connector Interface 4.3-10 Female

Calibration Connector Quantity 1

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 8
RF Connector Quantity, low band 4
RF Connector Quantity, total 20

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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



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RET Interface, quantity 2 female | 2 male

Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (2) | Mid band (4)

Power Consumption, active state, maximum 8 W
Power Consumption, idle state, maximum 1 W

Protocol 3GPP/AISG 2.0

Dimensions

 Width
 498 mm | 19.606 in

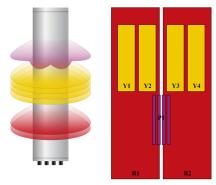
 Depth
 197 mm | 7.756 in

 Length
 1848 mm | 72.756 in

 Net Weight, antenna only
 41.3 kg | 91.051 lb

 TDD Column Spacing
 41 mm | 1.614 in

Array Layout

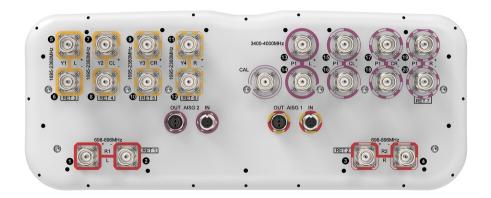


Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1
R2	698-896	3 - 4	2	AISG1	CPxxxxxxxxxxxxMM.2
Y1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxxxMM.3
Y2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxxxMM.4
Y3	1695-2360	9 - 10	5	AISG1	CPxxxxxxxxxxxxMM.5
Y4	1695-2360	11 - 12	6	AISG1	CPxxxxxxxxxxxxMM.6
P1	3400-4200	13 - 20	7	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,Y3,Y	4Y1,Y2,Y3,Y	¥Y1,Y2,Y3,Y4	¥Y1,Y2,Y3,Y4	IP1	P1
Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2180	2300-2360	3400-3800	3700-4000
RF Port	1-4	1-4	5-12	5-12	5-12	5-12	13-20	13-20
Gain, dBi	14.1	15	15.6	16.2	16.6	16.8	16.1	16.3
Beamwidth, Horizontal, degrees	75	66	68	67	62	60	85	74
Beamwidth, Vertical, degrees	12.3	10.7	9.2	8.6	8.2	7.4	6	5.6
Beam Tilt, degrees	2-14	2-14	2-12	2-12	2-12	2-12	0-10	0-10
USLS (First Lobe), dB	18	17	16	17	16	18	16	15
Front-to-Back Ratio at 180°, dB	27	28	34	34	33	36	30	31
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 ,							5	5

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Antenna port to Cal port, degrees								
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 Specificat	ions, Br	oadcast	: 65°					
Frequency Band, MHz							3400-38	00 3700-4000
Gain, dBi							17.9	18.5
Beamwidth, Horizontal, degrees							65	65
Beamwidth, Vertical, degrees							5.9	5.6
Front-to-Back Total Power at 180° ± 30°, dB							26	27
USLS (First Lobe), dB							19	20
Electrical Specificat	ions, En	ivelope	Pattern					
Frequency Band, MHz							3400-38	00 3700-4000
Gain, dBi							21.1	21.3
Beamwidth, Horizontal at 10 dB, degrees							119	119
Front-to-Back Total Power at 180° ± 30°, dB							28	28
USLS (First Lobe), dB							22	22
Electrical Specificat	ions, Se	rvice Be	eam					
Frequency Band, MHz							3400-38	00 3700-4000
Steered 0° Gain, dBi							21.1	21.1
Steered 0° Beamwidth, Horizontal, degrees							24	25
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB							31	30
Steered 0° Horizontal Sidelobe, dB							13	12



Steered 30° Gain, dBi	19.7	20.3
Steered 30° Beamwidth, Horizontal, degrees	30	25
Steered 30° Front-to-Back Total Power at 180° ± 30°, dB	28	28

Electrical Specifications, Soft Split

Frequency Band, MHz	3400-3800 3700-4000		
Gain, dBi	19.7	20.1	
Beamwidth, Horizontal, degrees	33	27	
Front-to-Back Total Power at 180° ± 30°, dB	29	28	
Horizontal Sidelobe, dB	15	15	

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.59 m ² 6.351 ft ²
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	755.0 N @ 150 km/h (169.7 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	52.6 kg 115.963 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

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Included Products

BSAMNT-2F

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

* Footnotes

Performance Note Severe 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

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