

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

- 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

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 Type	RF 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

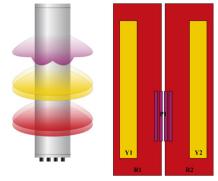
RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male
Input Voltage	10-30 Vdc
Internal RET	High band (1) Low band (2) Mid band (2)
Power Consumption, active state, maximum	8 W

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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	1499 mm 59.016 in
Net Weight, antenna only	33 kg 72.752 lb
TDD Column Spacing	41 mm 1.614 in

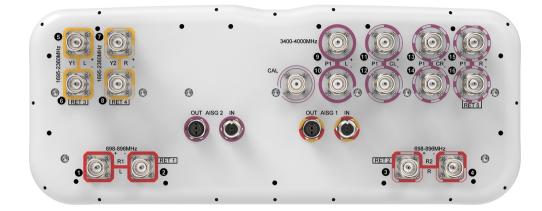
Array Layout



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

izes of colored boxes are not true depictions of array sizes

Port Configuration



Electrical Specifications

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Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 3400 – 4000 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,400 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	1695-1880) 1850–1990) 1920–2180) 2300–2360	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	13.6	14	16.9	17.4	17.9	18.3	16.4	16.6
Beamwidth, Horizontal, degrees	59	53	60	60	62	62	83	70
Beamwidth, Vertical, degrees	17.1	15.1	6.3	5.8	5.5	5	6.1	5.8
Beam Tilt, degrees	2-16	2-16	2-12	2-12	2-12	2-12	0-10	0-10
USLS (First Lobe), dB	19	14	18	19	19	19	15	14
Front-to-Back Ratio at 180°, dB	29	29	31	34	34	31	29	30
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							7	7
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	250	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz

Gain, dBi

3400-3800 3700-4000

18.3 18.9

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Beamwidth, Horizontal, 6 degrees	65	65
Beamwidth, Vertical, degrees 6	6.2	5.9
Front-to-Back Total Power at2180° ± 30°, dB2	26	26
USLS (First Lobe), dB	17	17
Electrical Specifications, Envelope Pattern		
Frequency Band, MHz 3	3400-3800	3700-4000
Gain, dBi	21.1	21.6
Electrical Specifications, Service Beam		
Frequency Band, MHz 3	3400-3800	3700-4000
Steered 0° Gain, dBi	21.3	21.6
Steered 0° Beamwidth,2Horizontal, degrees2	24	24
Steered 0° Front-to-Back2Total Power at 180° ± 30°, dB2	29	29
Steered 0° Horizontal 1 Sidelobe, dB	14	14
Steered 30° Gain, dBi	19.7	20.1
Steered 30° Beamwidth,2Horizontal, degrees2	29	26
Steered 30° Front-to-Back2Total Power at 180° ± 30°, dB	28	27

Electrical Specifications, Soft Split

Frequency Band, MHz	3400-3800 3700-4000	
Gain, dBi	19.6	19.9
Beamwidth, Horizontal, degrees	33	30
Front-to-Back Total Power at 180° ± 30°, dB	28	27
Horizontal Sidelobe, dB	17	16

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.47 m ² 5.059 ft ²
Effective Projective Area (EPA), lateral	0.14 m² 1.507 ft²
Wind Loading @ Velocity, frontal	498.0 N @ 150 km/h (112.0 lbf @ 150 km/h)

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Wind Loading @ Velocity, lateral	148.0 N @ 150 km/h (33.3 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	597.0 N @ 150 km/h (134.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	342.0 N @ 150 km/h (76.9 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	1686 mm 66.378 in
Weight, gross	43.3 kg 95.46 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 Note Severe environmental conditions may degrade optimum performance

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BSAMNT-2F



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

Fixed tilt mounting kit
Outdoor
Silver
115 mm 4.528 in
60 mm 2.362 in
3.8 kg 8.378 lb
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

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