

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

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	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
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

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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	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	CPxxxxxxxxxxXMM.2
¥1	1695-2360	5 - 6	3	AISG1	CPxxxxxxxxxxXMM.3
¥2	1695-2360	7 - 8	4	AISG1	CPxxxxxxxxxxXMM.4
¥3	1695-2360	9 - 10	5	AISG1	CPxxxxxxxxxxXMM.5
¥4	1695-2360	11 - 12	6	AISG1	CPxxxxxxxxxxXMM.6
P1	3400-4200	13 - 20	7	AISG2	CPxxxxxxxxxXMM.1

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

Port Configuration



Electrical Specifications

Impedance

50 ohm

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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,Y4	4Y1,Y2,Y3,Y4	4Y1,Y2,Y3,Y4	4Y1,Y2,Y3,Y4	4P1	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, 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	17.9	18.5
Beamwidth, Horizontal,	65	65

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degrees		
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 Specifications, Envelope Pattern		
Frequency Band, MHz	3400-3800	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 Specifications, Service Beam		
Frequency Band, MHz	3400-3800	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

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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	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
UK-ROHS	Compliant
(())	

Included Products

RSAMNT-2F	
DOAIVINT ZI	

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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