

72-port sector antenna, 12x 694-960, 12x 1427-2690, 12x 1695-2180, 12x 2490-2690MHz 65° HPBW and 24x 3300-3800 MHz, 90° HPBW, 24x RET

- Separated Extension KIT available for this antenna, check Optional Mounting Kits section
- No pole mounting kit for this antenna

General Specifications

Antenna Type DualPol® tri-sector

Band Multiband

Calibration Connector Interface M-LOC

Calibration Connector Quantity 3

Color Light Gray (RAL 7035)

Performance Note Outdoor usage

Radome Material Fiberglass, UV resistant

RF Connector Interface 4.3-10 Female | M-LOC

RF Connector Location Bottom

RF Connector Quantity, high band 24
RF Connector Quantity, mid band 36
RF Connector Quantity, low band 12

RF Connector Quantity, total 72

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface, quantity 3 female | 3 male

Internal RET High band (3) | Low band (6) | Mid band (15)

Protocol 3GPP/AISG 2.0

Dimensions

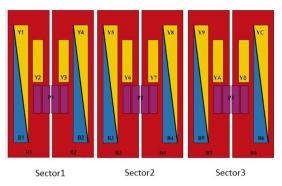
 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 110 kg | 242.508 lb

 Outer Diameter
 580 mm | 22.835 in



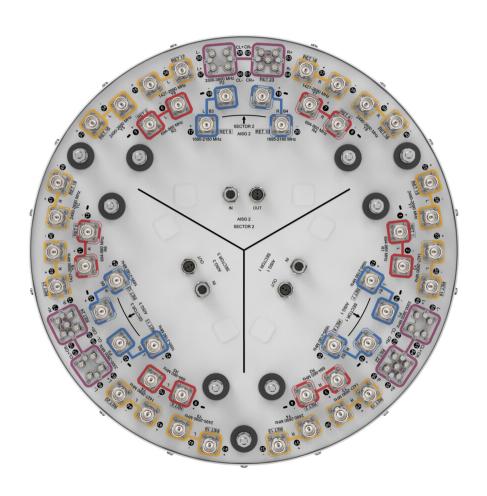
Array Layout



Array ID	Frequency (MHz)	RF Connector	(SRET)	AISG No.	AISG RET UID
R1	694-960	1 - 2	1		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R2	694-960	3 - 4	2		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B1	1695-2180	13 - 14	3		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B2	1695-2180	15 - 16	4		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	2490-2690	25 - 26	5	AISG1	
Y4	2490-2690	31 - 32	,		CPxxxxxxxxxxxxxxxxx
Y2	1427-2690	27 - 28	6] [CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y3	1427-2690	29 - 30	7] [CPxxxxxxxxxxxxxxxx
PI	3300-3800	49 - 56	8	ΙΓ	ĆPxxxxxxxxxxxxxxx
R3	694-960	5 - 6	9		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R4	694-960	7 - 8	10	I	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B3	1695-2180	17 - 18	11		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B4	1695-2180	19 - 20	12		CPxxxxxxxxxxxxxx84
Y5	2490-2690	33 - 34	13	AISG2	CPxxxxxxxxxxxxxxxxxx
Y8	2490-2690	39 - 40	13		CPX000000000000000000000000000000000000
Y6	1427-2690	35 - 36	14] [CPxxxxxxxxxxxxxx
¥7	1427-2690	37 - 38	15		CPxxxxxxxxxxxxxxxxx
P2	3300-3800	57 - 64	16		CPx0000000000000000000P2
	694-960	9 - 10	17		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R6	694-960	11 - 12	18		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
85	1695-2180	21 - 22	19		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B6	1695-2180	23 - 24	20		CPs000000000000000000000000000000000000
Y9	2490-2690	41 - 42	21	AISG3	5B
YC	2490-2690	47 - 48	- '		CPx00x0000000000000000Y9
YA	1427-2690	43 - 44	22		CPxxxxxxxxxxxxX
ΥB	1427-2690	45 - 46	23		CPxxxxxxxxxxxxxxX
P3	3300-3800	65 - 72	24	lΓ	CPxxxxxxxxxxxxxxxxxxX

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1427 – 2690 MHz | 1695 – 2180 MHz | 2490 – 2690 MHz | 3300 – 3800

MHz | 694 – 960 MHz

Polarization ±45°

Electrical Specifications

	R1-R6	R1-R6	R1-R6	Y2,Y3,Y6,Y7,YA,YE	3Y2,Y3,Y6,Y7,YA,YE	3Y2,Y3,Y6,Y7,YA,YE	3Y2,Y3,Y6,Y7,YA,YE	3 Y2,Y3,Y
Frequency Band, MHz	694-806	790-896	890-960	1427-1518	1695-1990	1920-2300	2300-2500	2490-2
RF Port	1-12	1-12	1-12	27-30,35-38,43-46	27-30,35-38,43-46	27-30,35-38,43-46	27-30,35-38,43-46	27-30,3
Gain at Mid	13.9	14.6	14.7	13.1	15.1	16.3	16.8	17
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Tilt, dBi								
Beamwidth, Horizontal, degrees	67	59	57	61	67	59	60	57
Beamwidth, Vertical, degrees	10.4	9.5	9.1	10	8.1	7.2	6.4	5.9
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	15	16	18	19	20	18
CPR at Boresight, dB	19	18	19	15	21	19	19	19
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25	25
Isolation, Inter-band, dB	27	27	27	25	25	25	25	25
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, typical, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200	200	150	150

Electrical Specifications

Y1,Y4,Y5,Y8,Y9,YCP1,P2,P3 P1,P2,P3

	11,14,15,18,19,1	CP1,P2,P3	P1,P2,P3
Frequency Band, MHz	2490-2690	3300-360	03600-3800
RF Port	25-26,31-34,39- 42,47-48	49-72	49-72
Gain at Mid Tilt, dBi	17.8	15.1	15.4
Beamwidth, Horizontal,	63	84	81

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degrees			
Beamwidth, Vertical, degrees	4	6.5	6
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	17	14	15
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		0.9	0.9
Coupler, max Phase Δ, Antenna port to Cal port, degrees		7	7
CPR at Boresight, dB	20	16	15
Isolation, Cross Polarization, dB	27	25	25
Isolation, Inter-band, dB	27	25	25
Isolation, Co- polarization, dB		19	19
VSWR	1.5 14.0	1.5 14.0	1.5 14.0

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Return loss, dB			
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-140	-140
Input Power per Port at 50°C, maximum, watts	150	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	16.4	16.4
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal at 10 dB, degrees	117	112
Beamwidth, Vertical, degrees	6.5	6.1
Front-to- Back Total Power at 180° ± 30°, dB	33	33
USLS (First Lobe), dB	18	18

Electrical Specifications, Service Beam

Frequency Band, MHz	3300-36003600-380		
Steered 0° Gain, dBi	19.8	20.7	
Steered 0° Beamwidth, Horizontal, degrees	28	24	
Steered 0°	36		



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Front-to- Back Total Power at 180° ± 30°, dB		
Steered 0° Horizontal Sidelobe, dB	14	14
Steered 30° Gain, dBi	19.3	19.3
Steered 30° Beamwidth, Horizontal, degrees	29	29
Steered 30° Front-to- Back Total Power at 180° ± 30°, dB	36	35
Steered 30° Horizontal Sidelobe, dB	9	10

Electrical Specifications, Soft Split

Frequency Band, MHz	•		
Gain, dBi	19.3	19.2	
Beamwidth, Horizontal, degrees	31	33	
Front-to- Back Total Power at 180° ± 30°, dB	35	35	
Horizontal Sidelobe, dB	16	19	

Mechanical Specifications

Wind Loading @ Velocity, frontal	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)



Wind Loading @ Velocity, rear 745.0 N @ 150 km/h (167.5 lbf @ 150 km/h)

Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

 Width, packed
 750 mm | 29.528 in

 Depth, packed
 690 mm | 27.165 in

 Length, packed
 2510 mm | 98.819 in

 Weight, gross
 131.5 kg | 289.908 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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

