

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

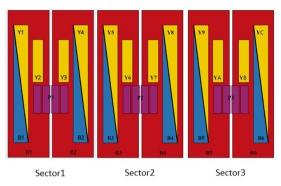
 Length
 2100 mm | 82.677 in

 Net Weight, antenna only
 110 kg | 242.508 lb

 Outer Diameter
 580 mm | 22.835 in



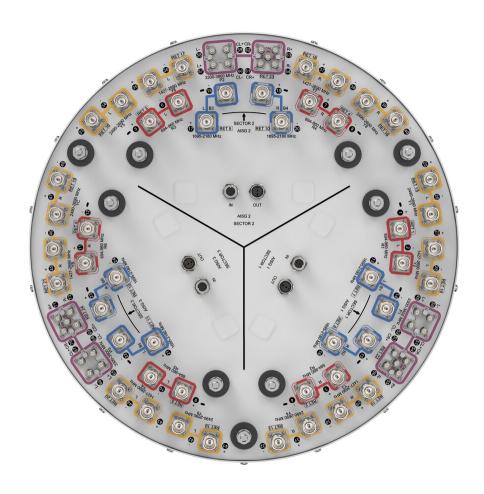
Array Layout



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	ΙΓ	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
81	1695-2180	13 - 14	3	I	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B2	1695-2180	15 - 16	4		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y1	2490-2690	25 - 26	5	AISG1	
Y4	2490-2690	31 - 32	,		CPxxxxxxxxxxxxxxx
Y2	1427-2690	27 - 28	6		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Y3	1427-2690	29 - 30	7		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
PI	3300-3800	49 - 56	8		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R3	694-960	5 - 6	9		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
R4	694-960	7 - 8	10	ΙГ	CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B3	1695-2180	17 - 18	11		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
B4	1695-2180	19 - 20	12		СРхихихихихихихих В4
Y5	2490-2690	33 - 34	13	AISG2	CPxxxxxxxxxxxxxxxxxxxxxx
Y8	2490-2690	39 - 40			CPXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Y6	1427-2690	35 - 36	14		CPxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
¥7	1427-2690	37 - 38	15		CPxxxxxxxxxxxxxxxxxxx
P2	3300-3800	57 - 64	16		CPx0000000000000000000P2
	694-960	9 - 10	17		CPxxxxxxxxxxxxxxxxxxxxxxx
R6	694-960	11 - 12	18		CPxxxxxxxxxxxxxxxxxx
85	1695-2180	21 - 22	19		CPxxxxxxxxxxxxxxx85
B6	1695-2180	23 - 24	20		CPxxxxxxxxxxxxxxxxxxxxx
Y9	2490-2690	41 - 42	21	AISG3	CPxxxxxxxxxxxxxxxx
YC	2490-2690	47 - 48	- '		CFAAAAAA00000000011
YA	1427-2690	43 - 44	22		CPxxxxxxxxxxxxxxxxX
ΥB	1427-2690	45 - 46	23		СРхохооохоохоох
P3	3300-3800	65 - 72	24	Г	CPxxxxxxxxxxxxxxxxxxxxxx

(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,YB	Y2,Y3,Y6,Y7,YA,YB
Frequency Band, MHz	694-806	790-896	890-960	1427-1518	1695-1990
RF Port	1-12	1-12	1-12	27-30,35-38,43-46	27-30,35-38,43-46
Gain at Mid Tilt, dBi	13.9	14.6	14.7	13.1	15.1
Beamwidth, Horizontal,	67	59	57	61	67

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degrees					
Beamwidth, Vertical, degrees	10.4	9.5	9.1	10	8.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	17	15	16	18
Isolation, Cross Polarization, dB	27	27	27	25	25
Isolation, Inter-band, dB	27	27	27	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
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	694-806	790-896	890-960	1427-1518	1695-1990
Gain by all Beam Tilts, average, dBi	13.9	14.5	14.6	13	14.9
Front-to-Back Total Power at 180° ± 30°, dB	25	25	25	24	28
CPR at Boresight, dB	19	18	19	15	21
CPR at Sector, dB	13	9	9	1	5

Electrical Specifications

Y2,Y3,Y6,Y7,YA,YB Y2,Y3,Y6,Y7,YA,YB Y2,Y3,Y6,Y7,YA,YB B1-B6 Frequency Band, MHz 1920-2300 2300-2500 2490-2690 1695-1990 **RF Port** 27-30,35-38,43-46 27-30,35-38,43-46 27-30,35-38,43-46 13-16,17-20,21-24 17 16.7 Gain at Mid Tilt, dBi 16.3 16.8 Beamwidth, Horizontal, 59 60 57 72 degrees Beamwidth, Vertical, degrees 7.2 6.4 5.9 5.5 Beam Tilt, degrees 2-12 2-12 2-12 2-12 USLS (First Lobe), dB 19 20 18 17 25 Isolation, Cross Polarization, 25 25 27 25 25 26 25 Isolation, Inter-band, dB VSWR | Return loss, dB 1.5 | 14.0 1.5 | 14.0 1.5 | 14.0 1.5 | 14.0 PIM, 3rd Order, typical, 2 x 20 -153 -153 -153 -153 W, dBc

Input Power per Port at 50°C, maximum, watts	200	150	150	200			
Electrical Specifications, BASTA							
Frequency Band, MHz	1920-2300	2300-2500	2490-2690	1695-1990			
Gain by all Beam Tilts, average, dBi	16.1	16.6	16.7	16.5			
Front-to-Back Total Power at 180° ± 30°, dB	28	27	30	24			
CPR at Boresight, dB	19	19	19	18			
CPR at Sector, dB	6	6	1	4			

Electrical Specifications

·	B1-B6	Y1,Y4,Y5,Y8,Y9,YC	P1,P2,P3	P1,P2,P3
Frequency Band, MHz	1920-2180	2490-2690	3300-3600	3600-3800
RF Port	13-16,17-20,21-24	25-26,31-34,39- 42,47-48	49-72	49-72
Gain at Mid Tilt, dBi	17	17.8	15.1	15.4
Beamwidth, Horizontal, degrees	69	63	84	81
Beamwidth, Vertical, degrees	5	4	6.5	6
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	17	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
Isolation, Cross Polarization, dB	27	27	25	25
Isolation, Inter-band, dB	26	27	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
PIM, 3rd Order, typical, 2 x 20 W, dBc	-153	-153	-140	-140
Input Power per Port at 50°C,	200	150	75	75

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maximum, watts

Electrical Specifications, BASTA	ıs, BASTA
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Frequency Band, MHz	1920-2180	2490-2690	3300-3600	3600-3800
Gain by all Beam Tilts, average, dBi	16.9	17.4	14.8	15.2
Front-to-Back Total Power at 180° ± 30°, dB	24	26	30	31
CPR at Boresight, dB	20	20	16	15
CPR at Sector, dB	4	4	6	6

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

3300-3600	3600-3800
19.8	20.7
28	24
36	
14	14
19.3	19.3
29	29
36	35
9	10
	19.8 28 36 14 19.3 29

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Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3600	3600-3800
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
 714 mm | 28.11 in

 Depth, packed
 692 mm | 27.244 in

 Length, packed
 2537 mm | 99.882 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

