

24-port sector antenna, 4x 694-960, 4x 1427-2690, 4x 1695-2180, 4x 2490-2690MHz 65° HPBW and 8x 3300-3800 MHz, 90° HPBW, 24x RET

• Separated Extension KIT available for this antenna, check Optional Mounting Kits section

### General Specifications

Multiband
M-LOC
1
Outdoor usage
4.3-10 Female   M-LOC
Bottom
8
12
4
24

### Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface, quantity	1 female   1 male
Internal RET	High band (1)   Low band (2)   Mid band (5)
Protocol	3GPP/AISG 2.0
Dimensions	
Length	2100 mm   82.677 in
Net Weight, antenna only	77.6 kg   171.079 lb
Outer Diameter	580 mm   22.835 in

### Array Layout

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Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	RET UID
R1	694-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxR1
R2	694-960	3 - 4	2	AISG1	CPxxxxxxxxxxxxxxxR2
B1	1695-2180	5 - 6	3	AISG1	CPxxxxxxxxxxxxxxB1
B2	1695-2180	7 - 8	4	AISG1	CPxxxxxxxxxxxxxxB2
Y1	2490-2690	9 - 10	5	416.61	CD: and a second V1
Y4	2490-2690	15 - 16	5	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXY1
Y2	1427-2690	11 - 12	6	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
Y3	1427-2690	13 - 14	7	AISG1	CPxxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXX
P1	3300-3800	17 - 24	8	AISG1	CPxxxxxxxxxxxxxxxP1

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

## Port Configuration



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## 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,R2	R1,R2	R1,R2	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	Y2,Y3	B1,B2	B1,B2
Frequency Band, MHz	694-806	790-896	890-960	1427-151	81695-199	001920-230	02300-250	02490-269	01695-199	01920-2180
RF Port	1-4	1-4	1-4	11-14	11-14	11-14	11-14	11-14	5-8	5-8
Gain at Mid Tilt, dBi	13.9	14.6	14.7	13.1	15.1	16.3	16.8	17	16.7	17
Beamwidth, Horizontal, degrees	67	59	57	61	67	59	60	57	72	69
Beamwidth, Vertical, degrees	10.4	9.5	9.1	10	8.1	7.2	6.4	5.9	5.5	5
Beam Tilt, degrees	2-12	2-12	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	17	17
Isolation, Cross Polarization, dB	27	27	27	25	25	25	25	25	27	27
lsolation, Inter-band, dB	27	27	27	25	25	25	25	25	26	26
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	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	-153	-153
Input Power per Port at	250	250	250	200	200	200	150	150	200	200

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50°C, maximum, watts

### **Electrical Specifications**

	Y1,Y4	P1	P1
Frequency Band, MHz	2490-2690	3300-3600	3600-3800
RF Port	9-10,15-16	17-24	17-24
Gain at Mid Tilt, dBi	17.8	15.1	15.4
Beamwidth, Horizontal, degrees	63	84	81
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 $\Delta$ , Antenna port to Cal port, degrees		7	7
Isolation, Cross	27	25	25

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#### Polarization,

watts

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

## Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-36003600-3800	
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

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Frequency Band, MHz	3300-36	003600-3800
Steered 0° Gain, dBi	19.8	20.7
Steered 0° Beamwidth, Horizontal, degrees	28	24
Steered 0° Front-to- Back Total Power at 180° ± 30°, dB	36	
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	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

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Horizontal Sidelobe, dB 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	99.3 kg   218.919 lb

### Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

### \* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance



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