

60-port sector antenna, 12x 617-960MHz, 24x 1695-2690MHz 65° HPBW and 24x 3300-3800 MHz, 90° HPBW, 15x 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)

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 | M-LOC

RF Connector Location Bottom

RF Connector Quantity, high band 24
RF Connector Quantity, mid band 24
RF Connector Quantity, low band 12
RF Connector Quantity, total 60

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 (6)

Protocol 3GPP/AISG 2.0

Dimensions

Length 2100 mm | 82.677 in

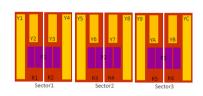
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Outer Diameter

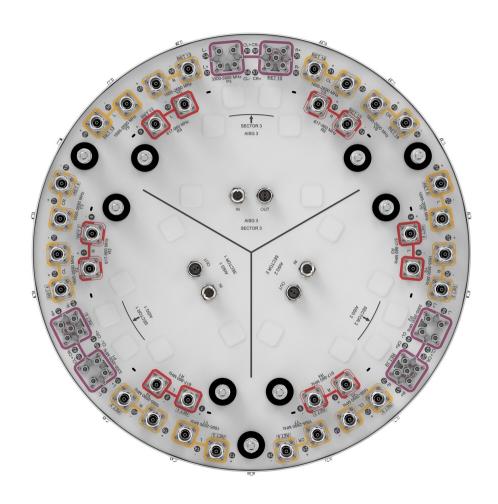
580 mm | 22.835 in

Array Layout

Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-960	1 - 2	1		CPxxxxxxxxxxxxxxXR1
	617-960	3 - 4	2		CPxxxxxxxxxxxxxxxxxxR2
Y1	1695-2690	13 - 14			CPxxxxxxxxxxxxxxY1
Y4	1695-2690	19 - 20	3	AISG1	CFAAAAAAAAAAAA
Y2	1695-2690	15 - 16			CPxxxxxxxxxxxxxY2
Y3	1695-2690	17 - 18	4		CI AAAAAAAAAAAAAA I Z
P1	3300-3800	37 - 44	5		CPxxxxxxxxxxxxxxP1
	617-960	5 - 6	6		CPxxxxxxxxxxxxxxXR3
R4	617-960	7 - 8	7		CPxxxxxxxxxxxxxxR4
Y5	1695-2690	21 - 22	8		CPxxxxxxxxxxxxxxY5
Y8	1695-2690	27 - 28		AISG2	
Y6	1695-2690	23 - 24	9		CPxxxxxxxxxxxxxY6
Y7	1695-2690	25 - 26			
P2	3300-3800	45 - 52	10		CPxxxxxxxxxxxxxxP2
	617-960	9 - 10	11		CPxxxxxxxxxxxxxxxR5
R6	617-960	11 - 12	12		CPxxxxxxxxxxxxxR6
Y9	1695-2690	29 - 30			CPxxxxxxxxxxxxxY9
YC	1695-2690	35 - 36	13	AISG3	
YA	1695-2690	31 - 32	14		CPxxxxxxxxxxxxXYA
YB	1695-2690	33 - 34			
P3	3300-3800	53 - 60	15		CPxxxxxxxxxxxxxxP3



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz | 3300 – 3800 MHz | 617 – 960 MHz

Polarization ±45°

Total Input Power, maximum 2,400 W

Electrical Specifications

	R1-R6	R1-R6	R1-R6	R1-R6
Frequency Band, MHz	617-694	694-790	790-890	890-960
RF Port	1-12	1-12	1-12	1-12
Beamwidth,	71	62	56	52

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degrees				
Beamwidth, Vertical, degrees	11.9	10.9	9.8	9.1
Beam Tilt, degrees	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	15	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	20	21	22	22
Isolation, Cross Polarization, dB	25	25	25	25
Isolation, Inter- band, dB	25	25	25	25
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	-153	-153
Input Power per Port at 50°C, maximum, watts	250	250	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	617–694	694-790	790-890	890-960
Gain by all Beam Tilts, average dBi	13	13.6	14.3	14.8

Electrical Specifications

	Y1,Y2,Y5,Y6,Y9,YA	Y1,Y2,Y5,Y6,Y9,YA	Y1,Y2,Y5,Y6,Y9,YA
Frequency Band, MHz	1695-1920	1920-2180	2490-2690
RF Port	13,14,19,20,21,22,27,28,29,3	30,35,36 13,14,19,20,21,22,27,28,29,	30,35,36 13,14,19,20,21,22,27,28,29,30,35,36
Beamwidth, Horizontal, degrees	73	63	56
Beamwidth, Vertical, degrees	7.9	7.1	5.7

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Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	17
Front-to-Back Total Power at 180° ± 30°, dB	24	23	22
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter- band, dB	25	25	25
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	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	150

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920-2180	2490-2690
Gain by all Beam Tilts, average, dBi	15.6	16.5	17.1

Electrical Specifications

	Y3,Y4,Y7,Y8,YB,YC	Y3,Y4,Y7,Y8,YB,YC	Y3,Y4,Y7,Y8,YB,YC
Frequency Band, MHz	1695–1920	1920-2180	2490-2690
RF Port	15-18,23-26,31-34	15-18,23-26,31-34	15-18,23-26,31-34
Beamwidth, Horizontal, degrees	65	60	55
Beamwidth, Vertical, degrees	7.9	7	5.7
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	15	19	19

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Front-to-Back Total Power at 180° ± 30°, dB	24	27	24
Isolation, Cross Polarization, dB	25	25	25
Isolation, Inter- band, dB	25	25	25
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	-153	-153
Input Power per Port at 50°C, maximum, watts	200	200	150

Electrical Specifications, BASTA

Frequency Band, MHz	1695–1920	1920-2180	2490-2690
Gain by all Beam Tilts, average, dBi	15.2	16.3	17

Electrical Specifications

	P1-P3
Frequency 3300-3600 Band, MHz	3600-3800
RF Port 37-60	37-60
Beamwidth, 84 Horizontal, degrees	82
Beamwidth, 6.4 Vertical, degrees	6
Beam Tilt, 2-12 degrees	2-12
USLS (First 14 Lobe), dB	15
Front-to-Back 22 Total Power at 180° ± 30°, dB	23
Coupling level, 26 Amp, Antenna	26

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port to Cal port, dB		
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	25	25
Isolation, Inter- band, dB	25	25
Isolation, Co- polarization, dB	19	19
VSWR Return loss, dB	1.5 14.0	1.5 14.0
PIM, 3rd Order, typical, 2 x 20 W, dBc	-145	-145
Input Power per Port at 50°C, maximum, watts	75	75

Electrical Specifications, BASTA

Frequency Band, MHz	3300-3600	3600-3800
Gain by all Beam Tilts,	14.8	15.2
average, dBi		

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	16.6	16.4
Beamwidth, Horizontal, degrees	65	65

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Beamwidth, Horizontal at 10 dB, degrees	115	110
Beamwidth, Vertical, degrees	6.2	6.1
Front-to-Back Total Power at 180° ± 30°, dB	25	25
USLS (First Lobe), dB	18	21

Electrical Specifications, Service Beam

Frequency Band, MHz	3300-3600	3600-3800
Steered 0° Gain, dBi	19.9	20.6
Steered 0° Beamwidth, Horizontal, degrees	26	24
Steered 0° Front-to-Back Total Power at 180° ± 30°, dB	28	31
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

Electrical Specifications, Soft Split

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	19.1	19.3
Beamwidth, Horizontal, degrees	32	31

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Front-to-Back 27 28

Total Power at 180° ± 30°, dB

Horizontal 16

Sidelobe, dB

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
 120 kg | 264.554 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

