

30-ports tri-sector antenna, 6x 617-960, 12x 1695-2690 and 12x 3300-4000 MHz, 65° HPBW, 9x RETs.

- Small size tri-sector macro cell canister antenna
- Ideal for deploying low band, mid band and CBRS/C-Band in flagpoles and concealment solutions
- Pole mounting kit not included. Separate pole mounting kit TS-MNT-TOP-370 available for pole diameter from 150mm (5.9 inch) to 273 mm (10.7 inch). Please check Optional Mounting Kits section for more details

General Specifications

Antenna Type	DualPol® tri-sector
Band	Multiband
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	ASA, UV stabilized
RF Connector Interface	4.3-10 Female M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	12
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	30

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	3 female 3 male
Input Voltage	10-30 Vdc
Internal RET	High band (3) Low band (3) Mid band (3)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0

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Dimensions

Length	1446 mm 56.929 in
Net Weight, antenna only	40.2 kg 88.626 lb
Outer Diameter	370 mm 14.567 in

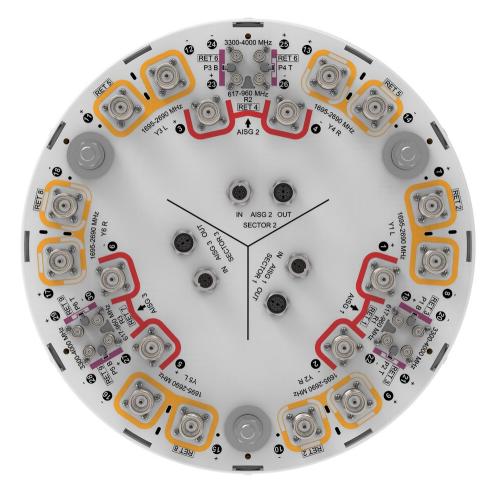
Array Layout

			_	-				Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
			рл			P6		R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxR1
	P2		P4			Pb		¥1	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxxxX1
						-		Y2	1695-2690	9 - 10	2	AISGT	CPXXXXXXXXXXXXXXXXXXXX
								P1	3300-4000	19 - 20	3	AISG1	CPxxxxxxxxxxxxxxP1
	P1		D 2			DE		P2	3300-4000	21 - 22	5	AISOT	CPXXXXXXXXXXXXXXXX
	PI		P3			122		R2	617-960	3 - 4	4	AISG2	CPxxxxxxxxxxxxxR2
Y1	Y2	Y3	N	(4	Y	5	Y6	¥3	1695-2690	11 - 12	5	AISG2	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
	R1		R2	-		R3		¥4	1695-2690	13 - 14	5	AISOZ	CPAAAAAAAAAAAAAAAAA
								P3	3300-4000	23 - 24	6	AISG2	CPxxxxxxxxxxxxxxxP3
								P4	3300-4000	25 - 26	0	AISOZ	CFAAAAAAAAAAAAAAAA
								R3	617-960	5 - 6	7	AISG3	CPxxxxxxxxxxxxxR3
								Y5	1695-2690	15 - 16	8	AISG3	CPxxxxxxxxxxxxxxXY5
								Y6	1695-2690	17 - 18	0	AISOS	CPAAAAAAAAAAAAAAAAA
								P5	3300-4000	27 - 28	9	AISG3	CPxxxxxxxxxxxxxxxP5
								P6	3300-4000	29 - 30	9	Albus	CF ^^^^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^

Port Configuration

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Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2690 MHz 3300 – 4000 MHz 617 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,500 W

Electrical Specifications

	R1-R3	R1-R3	R1-R3	R1-R3	Y1-Y6	Y1-Y6	Y1-Y6	P1-P6	P1-P6	P1-P6
Frequency Band, MHz	617-69	8 698-80	6806-89	4894-96	0 1695-192	201920-220	02300-269	03300-355	503550-370	03700-4000
RF Port	1-6	1-6	1-6	1-6	7-18	7-18	7-18	19-30	19-30	19-30
Gain at Mid Tilt, dBi	12.6	13.1	13.4	13.2	16.6	17.2	17	15.5	15.3	14.8
Beamwidth, Horizontal, degrees	76	75	74	71	64	61	70	60	60	61

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Beamwidth, Vertical, degrees	18.7	16.9	15.1	14.1	7	6.2	5.2	7.4	7	6.7
Beam Tilt, degrees	4-14	4-14	4-14	4-14	2-12	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	16	17	17	17	15	12	12	16	15	15
Front-to-Back Ratio at 180°, dB	27	29	29	27	30	30	30	30	30	30
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	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	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	250	250	250	250	200	200	200	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	617-69	8698-80	6806-89	4894-96	01695-192	01920-220	02300-269	03300-355	03550-370	03700-4000
Gain by all Beam Tilts, average, dBi	12.6	13.1	13.3	13.1	16.4	16.9	16.6	15.4	15	14.4
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.7	±0.7	±0.5	±0.7	±0.8	±0.8	±1.2
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±2	±3	±4	±8	±6	±9	±14	±15
Beamwidth, Vertical Tolerance, degrees	±1.2	±1.2	±0.9	±0.7	±0.5	±0.6	±0.5	±0.7	±0.6	±0.6
USLS, beampeak to 20° above beampeak, dB					12	12	11	12	11	11
Front-to-Back Total Power at 180° ± 30°, dB	21	22	22	21	24	26	24	29	30	30
CPR at Boresight, dB	16	20	19	22	18	21	18	13	13	15
CPR at Sector, dB	11	8	8	4	3	3	4	4	6	5

Mechanical Specifications

Wind Loading @ Velocity, frontal	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	319.0 N @ 150 km/h (71.7 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	1784 mm 70.236 in
Weight, gross	46.8 kg 103.176 lb

Regulatory Compliance/Certifications

Classification

CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



Agency

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

