

10-port sector antenna, 2x 617-960, 4x 1695-2690 and 4x 3100-4200 MHz, 65° HPBW, 3x RETs. Both high bands share the same electrical tilt.

• Small size ideal for deploying low band, mid band and 3.5 GHz in concealments and flagpoles

General Specifications

Antenna Type Sector

Band Multiband

Color Light Gray (RAL 7035)

Grounding TypeRF 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

RF Connector Location Bottom

RF Connector Quantity, high band 4
RF Connector Quantity, mid band 4

RF Connector Quantity, low band 2
RF Connector Quantity, total 10

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage 10-30 Vdc

Internal RET High band (1) | Low band (1) | Mid band (1)

Power Consumption, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Multi-RET)

Dimensions

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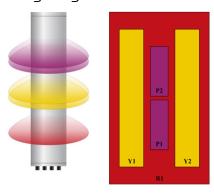
Width 301 mm | 11.85 in

Depth 181 mm | 7.126 in

Length 1219 mm | 47.992 in

Net Weight, antenna only 17.5 kg | 38.581 lb

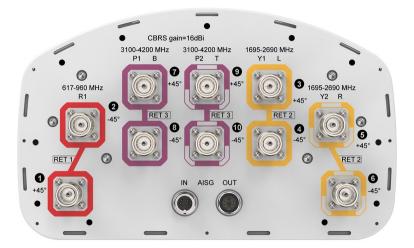
Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (MRET)	AISG No.	AISG RET UID	
R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxMM.1	
Y1	1695-2690	3 - 4	2	AISG1	CPxxxxxxxxxxxMM.2	
Y2	1695-2690	5 - 6	2			
P1	3100-4200	7 - 8	3	AISG1	CPxxxxxxxxxxxMM.3	
P2	3100-4200	9 - 10	3	AISGI	CPXXXXXXXXXXXXIVIIVI.3	

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

Port Configuration



Electrical Specifications

Impedance 50 ohm

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Operating Frequency Band 1695 – 2690 MHz | 3100 – 4200 MHz | 617 – 960 MHz

Polarization ±45°

Total Input Power, maximum 1,000 W @ 50 °C

Electrical Specifications

	R1	R1	R1	R1	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2	Y1,Y2
Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-188	01850-199	01920-220	002300-250	002500-2690
RF Port	1,2	1,2	1,2	1,2	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6	3,4,5,6
Gain at Mid Tilt, dBi	12.7	13.2	13.3	13.2	16.3	16.6	16.9	16.8	17.1
Beamwidth, Horizontal, degrees	77	74	73	71	67	62	62	72	63
Beamwidth, Vertical, degrees	21	18.5	16.4	15.2	7.6	7	6.6	6	5.7
Beam Tilt, degrees	4-18	4-18	4-18	4-18	2-12	2-12	2-12	2-12	2-12
USLS (First Lobe), dB	18	19	19	18	17	17	18	17	17
Front-to-Back Ratio at 180°, dB	27	34	34	34	33	35	33	30	32
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port at 50°C, maximum, watts	250	250	250	250	200	200	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	617-698	698-806	806-894	894-960	1695-188	01850-199	01920-220	002300-250	002500-2690
Gain by all Beam Tilts, average, dBi	12.4	12.9	13	12.9	15.8	16.3	16.5	16.3	16.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4	±0.5	±0.7	±0.4	±0.5	±0.6	±0.7
USLS, beampeak to 20° above beampeak, dB	18	19	18	15	14	14	15	14	15
Front-to-Back Total Power at 180° ± 30°, dB	19	23	23	22	24	26	27	25	25
CPR at Boresight, dB	17	22	25	26	20	23	23	22	22
CPR at Sector, dB	12	12	12	7	5	5	5	7	7

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Electrical Specifications

	P1,P2	P1,P2	P1,P2
Frequency Band, MHz	3100-340	03400-380	03700-4200
RF Port	7,8,9,10	7,8,9,10	7,8,9,10
Gain at Mid Tilt, dBi	15.5	15.5	15.6
Beamwidth, Horizontal, degrees	50	59	59
Beamwidth, Vertical, degrees	8.5	7.9	7.3
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	18	16	15
Front-to-Back Ratio at 180°, dB	31	30	29
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, 2 x 20 W, dBc	-145	-145	-145
Input Power per Port at 50°C, maximum, watts	100	100	100

Electrical Specifications, BASTA

Frequency Band, MHz	3100-340	03400-380	03700-4200
Gain by all Beam Tilts, average, dBi	15.1	14.8	15
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.5	±0.9
USLS, beampeak to 20° above beampeak, dB	11	10	11
Front-to-Back Total Power at 180° ± 30°, dB	26	24	24
CPR at Boresight, dB	16	16	16
CPR at Sector, dB	7	4	4

Mechanical Specifications

Effective Projective Area (EPA), frontal	0.16 m ² 1.722 ft ²
Effective Projective Area (EPA), lateral	0 13 m ² 1 399 ft ²

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 Wind Loading @ Velocity, frontal
 173.0 N @ 150 km/h (38.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 142.0 N @ 150 km/h (31.9 lbf @ 150 km/h)

 Wind Loading @ Velocity, maximum
 334.0 N @ 150 km/h (75.1 lbf @ 150 km/h)

Wind Loading @ Velocity, rear 176.0 N @ 150 km/h (39.6 lbf @ 150 km/h)

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

Packaging and Weights

 Width, packed
 565 mm | 22.244 in

 Depth, packed
 342 mm | 13.465 in

 Length, packed
 1362 mm | 53.622 in

 Weight, gross
 23 kg | 50.706 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

