

42-port tri-sector antenna, 6x617-960, 12x1695-2690MHz, 65°HPBW, 24x3300-3800MHz Beamformer, 12x RET

• Pole mounting kit not included. Separate pole mounting kit TS-MNT-TOP-370 available for pole diameter from 150 mm (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
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	ASA, UV stabilized
RF Connector Interface	4.3-10 Female M-LOC
RF Connector Location	Bottom
RF Connector Quantity, high band	24
RF Connector Quantity, mid band	12
RF Connector Quantity, low band	6
RF Connector Quantity, total	42

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			
Internal RET	High band (3) Low band (3) Mid band (6)			
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	2100 mm 82.677 in
Net Weight, antenna only	55.4 kg 122.136 lb
Outer Diameter	370 mm 14.567 in

Array Layout



Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	617-960	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxR1
Y1	1695-2690	7 - 8	2	AISG1	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
Y2	1695-2690	9 - 10	3	AISG1	CPxxxxxxxxxxxxxxX2
P1	3300-3800	19 - 26	4	AISG1	CPxxxxxxxxxxxxxxxP1
R2	617-960	3 - 4	5	AISG2	CPxxxxxxxxxxxxxxR2
Y3	1695-2690	11 - 12	6	AISG2	CPxxxxxxxxxxxxxXXXXXXXXXXXXXXXXXXXXXXXX
¥4	1695-2690	13 - 14	7	AISG2	CPxxxxxxxxxxxxxXXXXXXXXXXY4
P2	3300-3800	27 - 34	8	AISG2	CPxxxxxxxxxxxxxxP2
R3	617-960	5 - 6	9	AISG3	CPxxxxxxxxxxxxxxR3
Y5	1695-2690	15 - 16	10	AISG3	CPxxxxxxxxxxxxxxXY5
Y6	1695-2690	17 - 18	11	AISG3	CPxxxxxxxxxxxxxXXXXXXXXXXXY6
P3	3300-3800	35 - 42	12	AISG3	CPxxxxxxxxxxxxxxP3

(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	1695 – 2690 MHz 3300 – 3800 MHz 617 – 960 MHz
Polarization	±45°
Total Input Power, maximum	1,200 W @ 50 °C

Electrical Specifications

	R1-R3	R1-R3	R1-R3	R1-R3	Y1-Y6	Y1-Y6	Y1-Y6	Y1-Y6	P1-P3	P1-P3
Frequency Band, MHz	617-698	698-806	790-894	890-960	1695-1995	1920-2300	2300-2500	2490-2690	3300-3600	3600-3800
RF Port	1-6	1-6	1-6	1-6	7-18	7-18	7-18	7-18	19-42	19-42
Gain at Mid Tilt, dBi	14.5	14.8	15.4	15.7	16.4	17.1	17.2	17.1	15.3	15.3
Beamwidth,	76	74	70	68	62	62	60	61	85	83

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Horizontal, degrees										
Beamwidth, Vertical, degrees	12.1	11	9.9	9.3	7.8	6.9	6.2	5.7	6.3	5.9
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	16	20	22	18	18	18	18	17	14	13
Front-to-Back Ratio at 180°, dB	30	30	30	33	29	30	30	30	26	25
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	25	25	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25	25	25	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	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	-150	-150	-150	-150	-150	-150	-150	-150	-140	-140
Input Power per Port at 50°C, maximum, watts	300	300	300	300	250	250	200	200	75	75

Electrical Specifications, Broadcast 65°

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	17.9	17.9
Beamwidth, Horizontal at 3 dB, degrees	65	65
Beamwidth, Vertical, degrees	6.3	5.8
USLS (First Lobe), dB	18	18

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Electrical Specifications, Service Beam

Frequency Band, MHz	3300-36003600-38		
Steered 0° Gain, dBi	20	20.1	
Steered 0° Beamwidth, Horizontal, degrees	26	25	
Steered 0° Front-to- Back Total Power at 180° ± 30°, dB	29	27	
Steered 0° Horizontal Sidelobe, dB	12	11	
Steered 30° Gain, dBi	19	19.1	
Steered 30° Beamwidth, Horizontal, degrees	28	27	
Steered 30° Front-to- Back Total Power at	28	25	

Electrical Specifications, Soft Split

180° ± 30°, dB

Frequency Band, MHz	3300-3600	3600-3800
Gain, dBi	18.8	19.1
Beamwidth, Horizontal, degrees	32	29
Front-to-Back Total Power at 180° ± 30°, dB	28	26
Horizontal Sidelobe, dB	16	16

Mechanical Specifications

Wind Loading @ Velocity, frontal	489.0 N @ 150 km/h (109.9 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	489.0 N @ 150 km/h (109.9 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	489.0 N @ 150 km/h (109.9 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights

Width, packed	478 mm 18.819 in
Depth, packed	464 mm 18.268 in
Length, packed	2461 mm 96.89 in

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Weight, gross

64.2 kg | 141.537 lb

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

