

Electrical Specifications																					
Frequency range (MHz)	690-960 x 2									Lower 1690-2690 x 2											
	690-806			824-894			880-960			1690-1990		1920-2200		2200-2490		2490-2690					
Polarization	± 45°																				
Electrical downtilt (°)	0 – 10									0 – 10											
Tilt (°)	0	5	10	0	5	10	0	5	10	0	5	10	0	5	10	0	5	10			
Gain (dBi)	15.4	15.5	15.3	15.8	15.9	15.7	15.9	16.1	15.8	16.6	16.8	16.6	17.3	17.5	17.3	17.5	17.8	17.7	17.7	18.1	17.9
1 st USLS (Min.) (dB)	17	17	16	17	16	16	17	16	16	17	16	16	17	16	16	17	16	16	16	16	15
Horizontal 3dB beamwidth (°)	69			65			61			68		65		63		61					
Vertical 3dB beamwidth (°)	9.1			7.9			7.5			6.2		5.8		5.2		4.8					
Front to back, co-polar (Typ.) (dB)	>25									>28											
Cross polar ratio (Typ.) (dB)	0°																				
	±60°																				
VSWR RL (dB)	<1.5 >14																				
	≥25																				
Isolation between ports (dB)	≥25																				
Max. power per input (W)	500 (at 50° C environmental temperature)									250 (at 50° C environmental temperature)											
Intermodulation IM3 (dBc)	≤ -153 (2×20 W carrier)																				
Impedance(Ω)	50																				
Lightning protection	DC Ground																				

Electrical Specifications															
Frequency range (MHz)	Upper 1690-2690 x 2														
	1690-1990				1920-2200				2200-2490				2490-2690		
Polarization	± 45°														
Electrical downtilt (°)	0 – 10														
Tilt (°)	0	5	10	0	5	10	0	5	10	0	5	10	0	5	10
Gain (dBi)	16.1	16.3	16.1	16.8	17.0	16.8	17.0	17.3	17.2	17.2	17.6	17.4			
1 st USLS (Min.) (dB)	17	16	15	17	16	15	17	16	15	17	16	15			
Horizontal 3dB beamwidth (°)	68			65			63			61					
Vertical 3dB beamwidth (°)	6.2			5.8			5.2			4.8					
Front to back, co-polar (Typ.) (dB)	>28														
Cross polar ratio (Typ.) (dB)	0°														
	±60°														
VSWR RL (dB)	<1.5 >14														
	≥28														
Max. power per input (W)	250 (at 50° C environmental temperature)														
Intermodulation IM3 (dBc)	≤ -153 (2×20 W carrier)														
Impedance(Ω)	50														
Lightning protection	DC Grounded														



Mechanical Specifications		
Connector	12 x 4.3-10 Female	
Connector position	Bottom	
Dimensions H×W×D (in) (mm)	106.3×19.7×6.2 2700×500×158	
Weight (lb) (kg)	81.5 37	
Mechanical downtilt (°)	0-10	
Mast diameter supported (in) (mm)	2.0-4.5 50-115	
Radome material / color	Fiberglass / Light grey	
Operational temperature (°C)	-55~+65	
Wind load (lbf) (N)	Front	272.0 1210 (at 150 km/h)
	Side	107.9 480 (at 150 km/h)
	Rear	310.2 1380 (at 150 km/h)
Max. operational wind speed (mph) (km/h)	93 150	
Survival wind speed (mph) (km/h)	124 200	

RET Specifications								
Protocol	AISG 2.0/3GPP							
Voltage Range	10-36V DC							
Power Consumption	<1W Idle							
	<10W Tilting							
Hardware Interface	1	2	3	4	5	6	7	8
	DC	n/c	RS-485B	n/c	RS-485A	DC in/out	DC return	n/c
Connectors	8 pin connector, male, conform to AISG 2.0 8 pin connector, female, conform to AISG 2.0							
Adjustment Resolution	0.1 degree							

