



RaySat SR2000/5000

Very Low Profile Ku-Band SOTM Antennas

SOTM: For Quick, Continuous Communications

For many applications, Satcom On-The-Move (SOTM) is the only choice to establish reliable, continuous, quickly-deployed broadband communications.

The RaySat SR2000/5000 antennas are extremely low-profile, 2-way antennas that enable real-time broadband satellite communications for video, voice and data transfer while on-the-move or on-the-pause.

RaySat SR2000/5000: Extremely Slim and Rugged

The RaySat SR2000/5000 antennas feature a rugged polycarbonate radome. Their multi planar antenna panels enable a very low profile and slim design.

The antenna system features multiple onboard tracking sensors, which enable accurate tracking, short initial acquisition and instantaneous re-acquisition.

Multiple Modem Option

The SR2000/5000 can be offered with a Gilat/Wavestream BUC and a Gilat GLT1000 modem. The antenna can also be integrated with various 3rd-party equipment. In both cases, the antenna is supplied with an Antenna Control Unit (ACU).



Benefits

- Very low profile and slim
- Lightweight and ruggedized structure
- Easy and quick installation on vehicles
- Quick and auto acquisition, tracking, and re-acquisition



Technical Specifications: RaySat SR2000/5000

Mechanical	RaySat SR2000	RaySat SR5000
Antenna Size L x W x H	45 x 35 x 6 in 115 x 90 x 15.2 cm	45 x 35 x 7.5 in 115 x 90 x 19 cm
Antenna Weight	62 lb (28.1 kg)	79.4 lb (36 kg)
Antenna Control Unit Size L x W x H	7 x 9 x 3 in 18 x 23 x 7 cm	
Antenna Control Unit Weight	2.8 lb (1.3 kg)	
Electrical		
Frequency Band	Tx: 14.0-14.5 GHz Rx: 10.95-12.75 GHz*	
Polarization	Linear	
Tx Gain (typical)	27 dBi	30 dBi
G/T (typical)	8 dB/°K at 30° elevation or 9 dB/°K at 45° elevation	7.5 dB/°K at 30° elevation or 8.5 dB/°K at 45° elevation
Uplink EIRP	42 dBW (40W BUC)	45 dBW (40W BUC)
Cross Pol (typical)	25 dB	
IF Input (Tx)	950-1450 MHz	
IF Output (Rx)	950-2150 MHz	
Power Consumption	55 W Antenna + 8 W Antenna Control Unit	
Antenna Performance		
Elevation Angle	20°- 80°	25°- 80°
Azimuth Tracking Rate	60°/s	
Electrical Interfaces		
Tx Input	N-Female	
Rx Output	TNC-Female	
Environmental		
Temperature Range	-13° to + 131°F (-25° to +55°C)	
Relative Humidity	Up to 95%	
BUC Options		
BUC Options	16W, 25W, 40W	

* Factory selectable

RAYSAT-SR-2000-5000-COMM-210914-F



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