



## **RaySat SR300**

Compact, Lightweight SOTM Antenna

### ***SOTM: For Quick, Continuous Communications***

For many applications, satellite communications on-the-move (SOTM) is the only choice to establish reliable, continuous, quickly deployable broadband communications.

The RaySat SR300 antenna is compact and lightweight. It features a reliable, two-way antenna system that enables real-time broadband satellite communications, primarily for voice and data on-the-move or on-the-pause.

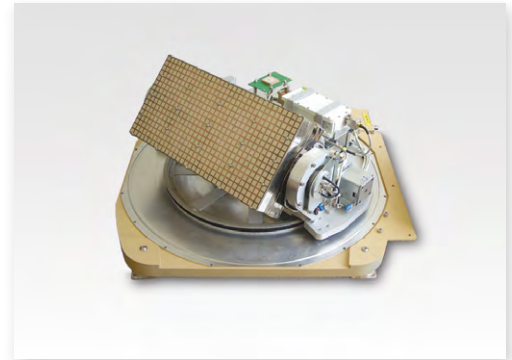
### ***RaySat SR300, Low-profile and Easy to Install***

RaySat SR300 antennas feature an advanced flat panel array which covers both the Rx and Tx bands. Minimal size, weight and power (SWaP) permits installation on small vehicles or marine vessels. The antenna's light weight ensures easy and safe mounting for quick and easy operation by non-technical personnel.

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

### ***Integrated Terminal Option***

The SR300 may be offered as part of a complete, integrated SOTM terminal with a unified management system. The terminal includes seamless mechanical integration of a Gilat/Wavestream BUC and a Gilat GLT1000 modem. The integration with Gilat's special-purpose SOTM modem allows for operation in low SNR conditions.



### ***Benefits***

- Compact SWaP
- Ku- and Ka-band support
- Easy and quick installation on small vehicles or vessels
- Rapid auto-acquisition, tracking and re-acquisition
- Optional integrated terminal including antenna, BUC and modem



## Technical Specifications: RaySat SR300

Mechanical	RaySat SR300Ku	RaySat SR300Ka
<b>Antenna Size L x W x H*</b>	20.4 x 19.3 x 10.3 in 51.9 x 49 x 26.2 cm	20.4 x 19.3 x 10.3 in 51.9 x 49 x 26.2 cm
<b>Antenna Weight</b>	35.3 lb (16 kg)	35.3 lb (16 kg)
Electrical		
<b>Frequency Band**</b>	Rx: 10.95-12.75 GHz Tx: 13.75-14.5 GHz	Rx: 19.2-20.2 GHz Tx: 29-30 GHz
<b>Polarization</b>	Linear	Circular
<b>Tx Gain (typical)</b>	27 dBi	33 dBi
<b>G/T (typical)</b>	6 dB/K	9 dB/K
<b>Uplink EIRP</b>	44 dBW (40W BUC)	49 dBW (40W BUC)
<b>Cross Pol (typical)</b>	25 dB	22 dB
<b>IF Input (Tx)</b>	950-1450 MHz	950-2150 MHz
<b>IF Output (Rx)</b>	950-2150 MHz	950-1950 MHz
<b>Power Consumption ***</b>	50 W	50 W
Antenna Performance		
<b>Elevation Angle</b>	0°-90° (automatic tracking up to 80°)	
<b>Azimuth Tracking Rate</b>	60°/s	
Electrical Interfaces		
<b>Electrical Interfaces</b>	Tx Input: WR75 Rx Output: TNC-Female	Tx Input: WR28 Rx Output: TNC-Female
Environmental		
<b>Temperature Range</b>	-40° to + 131°F (-40° to +55°C)	
<b>Relative Humidity</b>	Up to 95%	
BUC Options		
<b>BUC Options</b>	16W, 25W, 40W	12W, 20W, 40W

\* Height excludes dampers

\*\* Factory selectable

\*\*\* In case of GLT1000 modem



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