



## **RaySat ER7000** High-Gain SOTM Antenna

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

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

The RaySat ER7000 is a reliable, low-profile, two-way antenna system that enables real-time broadband satellite communications for video, voice and data transfer. Especially suited for trains and large vehicles, the ER7000 has been successfully deployed worldwide, providing high-performance broadband connectivity.

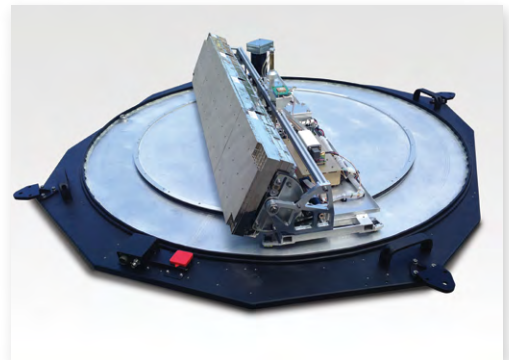
### ***RaySat ER7000: High Transmission Gain, Low-Profile***

The RaySat ER7000 maximizes throughput using high-efficiency waveguide panel technology and its light weight ensures easy and safe vehicle mounting. The antenna features multiple onboard tracking sensors, enabling accurate tracking and the shortest initial acquisition and instantaneous reacquisition time after signal loss.

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

The ER7000 can 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 Block Up Converter (BUC) and a GLT1000 modem. The integration with Gilat's special-purpose SOTM modem allows for operation in low SNR conditions.

When integrated with 3rd-party modems, the antenna is supplied with an Antenna Control Unit (ACU).



### ***Benefits***

- High throughput connectivity
- Easy and quick installation and setup
- Rapid auto-acquisition, tracking, and re-acquisition
- Optional integrated terminal including antenna, BUC, and modem



## Technical Specifications: RaySat ER7000

<i>Mechanical</i>	
<b>Antenna Size L x W x H*</b>	51.7 x 55.1 x 11.7 in / 131.2 x 139.9 x 29.8 cm
<b>Antenna Weight</b>	130 lb (59 kg)
<i>Electrical</i>	
<b>Frequency Band**</b>	Rx: 10.95-12.75 GHz Tx: 13.75-14.5 GHz
<b>Polarization</b>	Linear
<b>Tx Gain (typical)</b>	36 dBi
<b>G/T (typical)</b>	13 dB/K @ 12.2-12.75 GHz 11.8 dB/K @ 10.95-12.2 GHz
<b>Uplink EIRP</b>	55 dBW (80W BUC)
<b>Cross Pol (typical)</b>	25 dB
<b>IF Input (Tx)</b>	950-1700 MHz
<b>IF Output (Rx)</b>	950-2150 MHz
<b>Power Consumption ***</b>	150 W
<i>Antenna Performance</i>	
<b>Elevation Angle</b>	0°-90° (automatic tracking up to 80°)
<b>Azimuth Tracking Rate</b>	150°/s
<i>Electrical Interfaces</i>	
<b>Tx Input</b>	WR75
<b>Rx Output</b>	TNC-Female
<i>Environmental</i>	
<b>Temperature Range</b>	-40°F to +131°F (-40°C to +55°C)
<b>Relative Humidity</b>	Up to 95%
<i>BUC Options</i>	
<b>BUC Options</b>	16W, 25W, 40W, 100W

\* Height excludes dampers

\*\* Factory selectable

\*\*\* In case of GLT1000 modem



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