



RaySat ER5000

Low-profile Ka- and Ku- Band SOTM Antenna

Versatile Platform for SOTM

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

The RaySat ER5000 is a low-profile, lightweight, ruggedized two-way antenna system that enables real-time Ka- and Ku-band satellite communications for video, voice and data transfer. Its sturdy structure and compact size allow implementation on a wide range of vehicles.

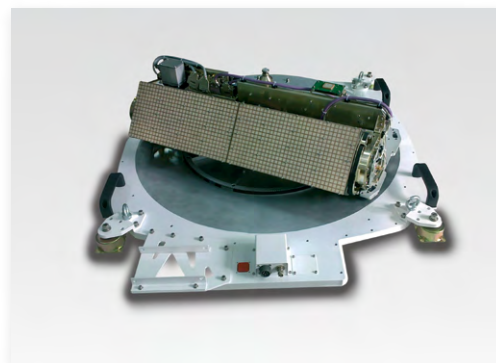
RaySat ER5000: Maximum Throughput

ER5000 antennas maximize throughput using high-efficiency waveguide panel technology. They feature multiple onboard tracking sensors, which enable accurate tracking, shortest initial acquisition and instantaneous re-acquisition time after signal loss.

Integrated Terminal Option

The ER5000 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 third-party modems, the antenna is supplied with an Antenna Control Unit (ACU).



Benefits

- Supports standard and extended Ku-band
- Supports commercial Ka-band
- Versatile platform, suitable for different vehicles
- Automatic acquisition and tracking of target satellite signal
- Optional integrated terminal including an antenna, BUC, and modem



Technical Specifications: RaySat ER5000

<i>Mechanical</i>	<i>RaySat ER5000Ku</i>	<i>RaySat ER5000Ka</i>
Antenna Size L x W x H*	33 x 38.4 x 10 in / 83.8 x 97.6 x 25.4 cm	33 x 37.8 x 10 in / 83.8 x 95.9 x 25.4 cm
Antenna Weight	92.8 lb (42.1 kg)	96.1 lb (43.7 kg)
<i>Electrical</i>		
Frequency Band**	Rx: 10.95-12.75 GHz Tx: 13.75-14.5 GHz	Rx: 19.2-20.2 GHz Tx: 29-30 GHz
Polarization	Linear	Circular
Tx Gain (typical)	31 dBi	36 dBi
G/T (typical)	9 dB/K	12 dB/K
Uplink EIRP	47 dBW (40W BUC)	52 dBW (40W BUC)
Cross Pol (typical)	25 dB	
IF Input (Tx)	950-1700 MHz	950-2000 MHz
IF Output (Rx)	950-2150 MHz	950-1950 MHz
Power Consumption***	120 W	120 W
<i>Antenna Performance</i>		
Elevation Angle	0°-90° (automatic tracking up to 80°)	
Tracking Rate	150°/s	
<i>Electrical Interfaces</i>		
Electrical Interfaces	Tx Input: WR75 Rx Output: TNC-Female	Tx Input: WR28 Rx Output: TNC-Female
<i>Environmental</i>		
Temperature Range	-40° to +131°F (-40° to +55°C)	
Relative Humidity	Up to 95%	
<i>BUC Options</i>		
BUC Options	16W, 25W, 40W	12W, 20W, 40W

* Height excludes dampers

** Factory Selectable

*** In case of GLT1000 modem



www.gilat.com | info@gilat.com | Gilat Satellite Networks

