

Product Sheet

RaySat™ T5-M



Designed for maritime use, the RaySat T5-M is a light-weight, sleek in-motion satellite antenna to complement the elegant and streamline design of marine vessels. The RaySat T5-M includes a specialized marine IDU offering control over the antenna's tracking system and satellite selection and provides the option to suspend rotation while docked or anchored for a quiet viewing experience.

► Designed for Commercial Use

With a more compact form factor, the RaySat T5-M builds on the elements and proven technology of the SpeedRay 1000 antenna:

- Light-weight and compact to maintain aerodynamics and the sleek appearance
- Specialized maritime mount for quick and attractive installation
- Automatic and autonomous operating system for easy use
- Rapid satellite tracking for reception at high speeds
- Satellite acquisition in < 1 minute for quick signal reception
- Satellite re-acquisition in < 10 seconds following LoS blockage for a high-quality entertainment experience

► RaySat T5-M Required System Components

- RaySat low-profile antenna - ODU
- RaySat antenna Control Unit - IDU
- Maritime mount - optional
- Set-top box – provided by local satellite TV provider

► International Market

Supporting TV services on Ku band satellites, RaySat antennas are completely independent of terrestrial infrastructure and can be pre-configured for use with different satellite TV services around the world.

LIVE Satellite TV on the Water

Any entertainment system on marine vessels can be quickly, easily and cost-effectively upgraded from a simple DVD display to an interactive entertainment experience with the RaySat T5-M. Whether docked, anchored or cruising, boats can receive a large variety of LIVE satellite TV channels - sports, news, music, movies, children's programming and others with the RaySat T5-M. The RaySat T5-M was specially designed to fit small to mid size marine vessels: **Motor boats, Yachts, Fishing boats, and more!**



RaySat™ T5-M

TechSpec



1-way low-profile and light-weight in-motion satellite antenna for maritime with a specialized IDU to suspend antenna rotation while docked and anchored

Physical	Outdoor unit size Outdoor unit weight Indoor unit (Optional) Mounting	60 L x 55 W x 17 H cm (24 x 22 x 6.8 in) 6 kg (13 lb) 18 L x 23 W x 7 H cm, 1 kg (7 x 9 x 3 in, 2.2 lb) Maritime mount
Electrical	Antenna G/T Frequency band Polarization CP LP Power Supply Power Consumption	5.5 dB/K @ 30° elevation High band 11.7 - 12.75 GHz Low band 10.95 - 11.7 GHz (Factory options) Dual circular RHCP/LHCP Dual linear automatically adjusted (V&H) 10-30 V DC 20 Watts
Antenna Performance	Elevation look angle range Azimuth angle range Tracking rate Polarization angle range Satellite acquisition Satellite re-acquisition	Automatically adjusted, 15° - 80° Automatically adjusted, 360° continuous 30°/second Automatically adjusted, -180° to +180° <1 minute, fully automated with integrated GPS <10 second (when LoS blockage is <2 minutes), integrated gyro
Satellite Service	Frequency Supports satellites with Supports regional DTH/FTA services Dedicated service option	Ku-band EIRP ≥53 dBW Examples: North America - DISH® Network, Direct-TV Europe - Many FTA channels, SKY (UK), SKY (IT), etc. Asia/Pacific - Dish-TV, Tata-Sky, TRUE, SKY (NZ), etc. Example: Gain - EIRP ≥51 dBW Data transfer - 2-4 Mbps Mobile TV service - 6-8 H.264 channels on a 36MHz TXP
Electrical Interfaces	RX and Control	F-Type, 75Ω
Environmental	Temperature range Relative humidity Speed	-25° to +55°C (-13° to +130°F) 10 – 100% condensing Unlimited

About RaySat

Established in 1997, RaySat™, Inc is a leading manufacturer and supplier of in-motion, low-profile, phased-array satellite antennas and supporting technology for the mass transportation, public and private sector, maritime market, automotive OEM and automotive aftermarket industries. These antennas allow moving vehicles to receive live satellite television and real-time data. Among its many awards for its technology and innovation, RaySat is the 2005 recipient of the Frost & Sullivan Emerging Technology of the Year Award. Staffed by over 150 professionals, spanning three continents, RaySat's management, sales and support staff are headquartered in Vienna, VA. Additional facilities, including R&D and sales offices are located in Europe and Asia.



RaySat, Inc. 8460-D-Tyco Rd. Vienna, VA 22182, USA Tel: +1-800-561-9280, Fax: +1-703-584-3775
 To contact RaySat International Sales & Marketing Team email marketing@raysat.com • www.raysat.com