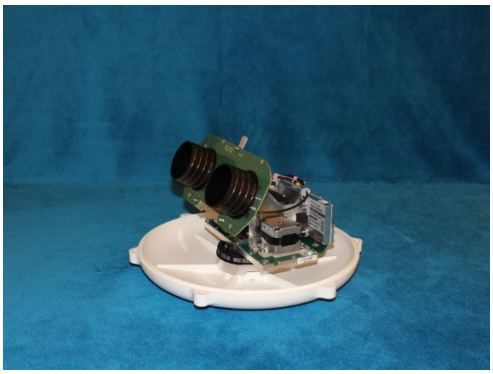
Thuraya IP321 Maritime Product Brief



- 3-Axis tracking antenna (ADU) for Thuraya system
- Connects to below deck terminal unit (BDU) through a single coaxial connection
- Low noise high linearity Rx amplifier chain.
- Constant gain high power Tx amplifier chain
- Complete GPS engine included with high linearity front-end
- Power Supply with DC cable included
- RF cable 1m (Power Supply to BDU)
- RF cable 4m (RG223/U) or 25m (LMR240) included (Power Supply to ADU)
- Pole-Mount and other accessories available

GENERAL SPECIFICATIONS	
Dimensions	Ø:320mm/H:277mm/3.2kg
RF/DC connector	N female
EMC & Safety (Note1)	IEC 60945, EN 60950
IP rating (Note 2)	IP56
Temperature (operating)	-30 to 55 °C
Temperature (storage)	-40 to 85 °C
Relative humidity at 40°C	≤ 95 %
Relative wind speed	≤ 200 km/h
Turn rate	12°/s
Roll	±25°/8s
Pitch	±15/5s
Yaw	±8/50s
Supply Voltage	10–32 V
DC power (Rx/Idle)	17–20 W
DC power (Tx)	37–40 W

Note 1: BDU manufacture must perform compliance approval for the entire system that is both BDU and ADU. Contact SpaceCom for further ADU details needed for compliance approval.

Note 2: For mounting options and details contact SpaceCom.

TX SPECIFICATIONS	
Frequency range	1626.5–1660.5 MHz
Nominal EIRP	17.5 dBW
EIRP stability	±0.4 dB

RX SPECIFICATIONS	
Frequency range	1525 – 1559 MHz
System G/T (Note3)	> -16.0 dB/K

GPS SPECIFICATIONS	
GPS engine	u-Blox module
Data protocol	NMEA via ASK modem
Time to first fix	<120 s
2D accuracy	10 m (5 satellites visible)

Note 3: Calculated using the maximum cable loss and an estimated noise figure of the compatible BDU.