

Thuraya IP Commander Product Brief



- 2-Axis tracking antenna (ADU) for Thuraya system
- Connects to below deck terminal unit (BDU) through a single coaxial connection
- ASK Modem connection to terminal unit (BDU)
- Low noise high linearity Rx amplifier chain.
- RX Gain reduction (BDU Controlled) for enhanced system linearity
- Constant gain high power Tx amplifier chain
- Complete GPS engine included with high linearity front-end
- Magnet-Mount and other accessories available

GENERAL SPECIFICATIONS

Dimensions	Ø:252mm/H:119mm/2.1kg
Shipment packaging	30 x 30 x 13cm / 2.5-3.1kg
Radome color	Desert
RF/DC connector	TNC female
EMC & Safety (Note1)	EN 60950
IP rating (Note 2)	IP56
Temperature (operating)	-30 to 55 °C
Temperature (storage)	-45 to 80 °C
Relative humidity at 40°C	≤ 95 %
Relative wind speed	≤ 200 km/h
Turn rate	40°/s
Turn rate change	50°/s ²
Supply Voltage	38-45 V
DC power (Rx/Idle)	13.5-15.5 W
DC power (Tx/Max. EIRP)	35-37 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	16.0 dBW
EIRP stability	±0.4 dB
Nominal input (ADU port)	-3 dBm

RX SPECIFICATIONS

Frequency range	1525 - 1559 MHz
System G/T (Note3)	> -15.9 dB/K
LNA gain (Note 4)	39 dB
LNA gain variation (Temp)	+2/-3 dB
LNA reduction (from BDU)	0-10 dB

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 worst-case noise figure for the BDU (supplied by manufacturer).

Note 4: Average across frequency and excl. antenna element, at 25°C.