

# SATCOMAR<sup>®</sup>



This system is operational for  
**high-speed boats and big ships.**



## SatCom on the Move Ka Bant Antenna

TURASIS produces Turkey's first and the highest performing mobile satellite communications system in its class. SATCOMAR in maritime applications provides the most superior technical performance in line with the required objectives of their class. SATCOMAR gimbal-controlled mobile satellite systems are the lightest systems in the world with 30 Mbps download and 10 Mbps upload in traffic.



- ★ Direct drive motor technology
- ★ The fastest motion control
- ★ The lowest power consumption
- ★ High operating temperature
- ★ The highest vibration resistance
- ★ The lowest antenna/radome volume
- ★ Completely unique Turkish engineering design
- ★ The most economical mobile satellite communication solution

**Turasis**

[www.turasis.com.tr](http://www.turasis.com.tr)





## Reflector and Feed

Reflector Diameter	: Ø: 600 mm
Antenna Type	: Cassegrain
Gain	: Rx 37 dBi , Tx 39 dBi(Radome)
HPBW	: Rx: 1.9 deg, Tx: 1.3 deg
Cross-pol Isolation	: 27 dB (Rx/Tx)
RX Frequency	: 19.7 - 20.2 GHz
TX Frequency	: 29.5 - 30.0 GHz
RX/TX Polarization	: RHCP / LHCP
VSWR	: Rx1.51 max., Tx1.51 max.
Sidelobe Envelope	: TxITU-R 580-6, Rx32-25log $\theta$

## Tracking System

Angular Error	: < 0.3°(RMS for 1 sigma )
Angular Velocity	: 200°/s (Az & El axis)
Angular Acceleration	: 1000°/s <sup>2</sup> (Az & El axis)
Azimuth Adj. Range	: 0 - 360°(continuous)
Elevation Adj Range	: 0° - 90°
Movement System	: 2 axis (Az &El)
Signal Tracking Time	: < 90 second (only antenna tracking duration without modem reboot time)
Tracking Algorithm	: No additional GPS system

## Other Equipment

Motors	: Direct Drive
Sensors	: Gyro, GPS, Accelerometer, Hall Effect
Interface	: Optional 7"LCD screen for system parameters
OpenAMIP	: Yes
Software Update	: Ethernet (Remote or Local)
Remote Access	: Yes

## Supported Modem Types

iDirect	: iFINITI series, EVOLUTION series, VELOCITY series
HNS	: JUPITER series

## BUC Specification

RF Input Frequency	: 29.5-30.0 GHz
IF Output Frequency	: 950-1450 Mhz
Local Osc Frequency	: 28.55 GHz (Ext. 10 MHz.)

## LNB Specification

RF Input Frequency	: 19.2-20.2 GHz
IF Output Frequency	: 950-1950 Mhz
Local Osc Frequency	: 18.25 GHz

## Operational Standarts

Humidity	: MIL-STD-810G Method 507.5
Solar Radiation	: MIL-STD-810G Method 505.5
High Temperature	: MIL-STD-810G Method 501.5
Low Temperature	: MIL-STD-810G Method 502.5
Rain	: MIL-STD-810G Method 506.5
Vibration	: MIL-STD-810G Method 514.6
Shock	: MIL-STD-810G Method 516.6
Temperature Shock	: MIL-STD-810G Method 503.5
EMC/EMI	: MIL-STD-461F

## Electrical Power

Power	: 150W (heating is off) 320W (heating is on ) Max.
PowerSupply Voltage	: 24V DC

## Operational Conditions

Temperature	: -30°C ~ +60°C
Heating and Cooling System	: 1 unit 150W heating fan and 2 units cooling fan.
Weight	: <30 kg (with Buc, Lnb, Modem)
Radom Size	: H: 744 mm Ø: 739 mm

