

Sea Tel 2406

3-Axis marine stabilized antenna system compatible with Ku-Band satellites

2009 Data Sheet

The most important thing we build is trust

The Model 2406 Broadband-at-Sea

The 2406 Antenna is a 60 cm Ku-Band maritime VSAT antenna for SCPC, broadband, or hybrid networks. This antenna system complies with the FCC's 04-286, WRC-03 resolution 902 and ETSI's latest EN 302 340 for ESV (Earth Stations on Vessels), which is a remarkable achievement for a 60 cm ring-focus antenna. Although small the antenna is still built to Sea Tel's exacting standards for vibration, shock and EMC. The antenna efficiency is better than 70% across the transmit and receive bands and is ideal for vessels that require "always-on" broadband satellite communications. The 2406 is suitable

for file and image transfer, video conferencing, e-mail, Virtual Private Networks (VPNs), and database backup.

The Sea Tel 06 Series utilizes the DAC 2202 Antenna Control Unit. The DAC 2202 is a 19" rack mount unit (1.75" tall) featuring: (3) RS-232/422 Serial Ports; (1) full function M&C and (2) NMEA ports for heading, GPS input and modem compatible, reformatted GPS output; (1) Ethernet port allowing (2) full-function TCP/IP M&C ports; (1) multi-user HTML interface port for setting all DAC parameters and viewing the current DAC status; (1) UDP download port for updating software in the Comm Interface.

Specifications

- Antenna: 0.6 m/24 " ring focus
- Radome: .87m/34" D x 1m/39" H (Frequency Tuned)
- Weight: 113 Kg/ 250lbs
- Feed Assembly: Orthogonal Linear polarized
- Transmit Gain: 36 dB mid band
- Receive Gain: 34 dB mid band
- Ship's Motion: +/-25 degree roll, +/-15 degree pitch
- Pedestal Type: 3-axis: Level, Cross Level and Azimuth
- Rate (all axis): 90 degrees/second
- Acceleration (all axis): 60 degrees/second²
- Stabilization Accuracy: +/- 0.2 degrees
- Tangential Accelerations: 0.5 G in 6 seconds
- Azimuth Stabilization: Requires heading reference signal from ship's gyrocompass system.
- Operating Temperature Range: -20 to +55 Degrees C
- System G/T calculated includes radome and receive filter: 13.5 dB/k min
- Cross-Pole Isolation: >30 dB
- Sidelobes: Meets FCC EIRP Spectral Density Mask @ -21.6 dBW/4KHz
- 1-year parts; 1-year labor



Sea Tel's patented, 3-axis stabilization system isolates the antenna from the ship's motion no matter how rough the weather and seas. The antenna system responds to ship's movement at a rate as fast as 90 degrees per second.

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