

Sea Tel Model 6012 Ku-Band

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

2013 Data Sheet

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COBHAM

Model 6012

Sea Tel 6012 is a 3-Axis marine stabilized antenna system compatible with most Ku-band satellites. The revolutionary architecture of this 1.5 meter system is based on Sea Tel's industry leading XX09 marine stabilized antenna system. The 6012 is the industry's first 1.5m Ku-band system powered by integrated marine antenna (IMA) software, supplied in a frequency tuned 76" (1.93m) radome or optionally in a 81" (2.05m) radome with air conditioner. Featuring an integrated control unit (ICU) that offers a single box

electronic control solution to maintain the best and most efficient pointing accuracy in the maritime market. With its extended web based secured user interface, built-in remote management capabilities it offers easy integration into network management systems through its Media Xchange Point (MXP), first seen on the 4012 system.

The intuitive web user interface—accessible from practically any internet-enabled device, including mobile devices—features secured socket layer

(SSL) password protection and multi-level data analysis capability. This makes the IMA software-enabled Sea Tel 6012 ready to face the communications needs of the maritime market in the 21st century.

Sea Tel 6012 is easy to install and designed to meet some of the most demanding shock and vibration specifications, such as IEC 60721, IEC 60945 and MIL STD 167-1. High performance and efficient RF components are integrated in the design of Sea Tel 6012 providing unparalleled reliability.

6012 Key Benefits

- Transmission rate is compatible with many different types of modems, networks and services.
- IP access to the internet and corporate networks enabling fast downloads of large data files and e-mail.
- Brake system on EL and CL axes to prevent damage due to loss of power.
- Efficient spectral use maximizing cost per bandwidth.
- Easy Stand-alone or network compatible installation.



Model shown with 76" radome.

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Model shown with 81" radome.



Typical data for Model 6012

Reflector size	1.5m/58in D Ring Focus
Radome	76 Inch (1.93m/76in D x 1.61m/63.44in H) (2.01m Max Flange Diameter) or optional 81 Inch with air conditioner (2.05m/80.8in D x 2.46m/96.9in H)
Tx Frequency	13.75-14.5 GHz
Rx Frequency	10.70-12.75 GHz
Tx Gains	45.1dB @ 14.25GHz
Rx Gains	44.0 dB @ 12.5GHz
G/T (calculated)	21.9 dB/k (In Radome)
BUCs	8W, 16W or higher
Pedestal Type	3-axis
Azimuth	Unlimited
Elevation Joint Angle	-15° to +115°
Weight (76in radome)	266kgs/586lbs
Polarization	Linear Cross-pol or Co-pol (selectable from below deck)
Stability Accuracy	0.1° RMS
Ship's Motion	+/-20 degrees roll; +/-10 degrees pitch
Vibration and Shock	IEC 60721-4-6, Mechanical Class 6M3

Typical data for Media Xchange Point (MXP)

- Standard 19 Inch 1U rack Mount. (Slide Rails Optional)
- 43 x 43 x 4.35 (cm)/ 17 x 17 x 1.75 (In)
- 110/220VAC, 47-63 Hz, Single Phase
- 3.0 kgs/ 6.6lbs
- 4 Ethernet Ports
- 1 Ethernet Port (Internal, RJ)
- 1 sma Connector (RX from RJ)
- 1 F-Connector from RJ to diplexer)
- 8 Tri-colored MXP status LEDs
- USB Device (Mini B)
- 2 RS-232 pass through ports
- 1 NMEA RS-232 serial port
- 1 RS-232 Console Port
- SBS & Synchro Gyro Inputs
- Aux IN1 & Aux IN2
- SW1, SW2, SW3, SW3A, SW4, SW4A (I/O)

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