

Sea Tel USAT30 Ka-Band

Sub-1m Marine stabilized antenna system for Eutelsat KA-SAT and ViaSat 1

COBHAM

Product Sheet

The most important thing we build is trust

Sea Tel USAT30 Ka-Band

The Sea Tel USAT30 Ka-Band is designed and equipped to operate in the high throughput satellite networks in Ka-bands, namely ViaSat 1 in North America and Eutelsat Ka-Sat 9A in Europe. The antenna is supplied in an 86cm (34 in.) radome. The above and below deck electronics are similar to a standard Sea Tel USAT30 supplying advanced electronic control to maintain the best and most efficient pointing accuracy in the maritime market.

A simplified RF design allows for internal switching of polarities when travelling through multiple K-Band spot beams. This also reduces the overall parts required to manufacture resulting in a highly reliable antenna system.

The Sea Tel USAT30 Ka-Band is capable of internet bandwidths of up to 12Mbps (depending on satellite and network). This should be the fastest speeds available in the maritime industry thus far. This of course opens up for more possibilities:

- Super-fast web browsing on-board.
- Super-fast file transfers for HD video and photos
- Enhanced video conferencing for a more professional result
- Stream videos, TV shows and movies in better quality.

The Sea Tel USAT30 Ka-Band is easy to install and designed to meet some of the toughest shock and vibration specifications in the maritime industry and can provide broadband services to any vessels within the respective satellite footprints for years to come.

Sea Tel USAT30 Ka-Band Key Benefits

- Easy to install and operate
- Extensive capabilities for online and offline troubleshooting
- Secure user interface
- Fast satellite acquisition using built-in GPS and proprietary algorithms
- High performance stabilization and satellite tracking even in inclement weather
- Polarized fee: circular Ka-band
- Works with or without ship's gyro
- Very light weight
- Sea Tel USAT30 Ka-Band



Sea Tel USAT30 Ka-Band

Sub-1m Marine stabilized antenna system for Eutelsat KA-SAT and ViaSat 1

COBHAM



Typical data for 75cm Ka-Band

- Reflector Size 75 cm / 29.5 in.
- Radome 86 cm / 34 in D x 99 cm / 39 in H
- Tx Frequency 29.50 - 30.0 GHz
- Rx Frequency 19.70 - 20.20 GHz
- Tx Gain 43.9 dBi (typ @ 29.5 GHz)
- Rx Gain 40.6 dBi (typ @ 19.20 GHz)
- G/T 16.7 dB/K (typical)
@ 30 degrees
- Pedestal Type 2-axis
- Azimuth 680
- Elevation Joint Angle +2° to +75°
- Weight 45 kgs / 100 lbs
- Polarization Circular
- Stability Accuracy 0.1° RMS

Typical data for Digital Antenna Controller (DAC)

- Standard 19 Inch 1U rack Mount.
(Slide Rails Optional)
- M&C Ports: 1 Serial, 3 TCP/IP, 1 multi-user web browser port
- CommIF Software
- UDP Upload Port for Updating
- Reformatted GPS Output (GGA and GLL)
- Heading Input: NMEA 0183, SBS, Synchro, and No Gyro Mode
- Dimensions: 19" x 1.75", 1U Rack Space
- 110/220VAC, 47-63 Hz, Single Phase

For further information please contact:

www.satcom.ohc@cobham.com