**INNOVATION AND TECHNOLOGY**

Ku and Ka VSAT band are finally combined into one single high-performing integrated antenna, compounding two universes for higher speed and better coverage.

The all-new BB75Ku/Ka antenna is designed for yachts and professional Oil&Gas, ferries and commercial ships willing to harvest the 50 Mbps* download speed offered by Ka band satellites, while relying on the coverage offered by Ku band networks.

The BB75Ku/Ka benefits from an innovative beam and band switching technology, allowing quick and automated commuting among available Ku and Ka satellites globally. An intuitive screen app manages network preferences, coverage areas and security features.

The challenge of a dual-band antenna in a limited space has been solved by using entirely custom-designed parts, realized by extensive research in dielectric and coating materials, with hundreds of hours of computer simulation and tight-tolerance machinery.

The antenna is equipped with two independent RF groups for the Ku and Ka band sharing through the same ultra-efficient coaxial feed.

The compact 75 cm carbon-fiber dish is treated with a tuned multi layer composite structure, which vastly improve its RF efficiency. The dish is mounted over a 3-axis chassis 100% made with aeronautical grade aluminum.

The tracking is managed by state-of-the-art software and high-precision inertial sensors that exclude the need for an external gyro, resulting in superior tracking performance in any weather.

An innovative “super-tuned” radome was specifically designed to reduce losses and the depolarization effects especially in Ka band.

*with Telenor Thor-7 network

**Introducing the brand new BB75 Ku/Ka Mark II**

**for Global Superfast Internet**

- Hardware setup version for ViaSat / Eutelsat / Telenor on request
- ACU controller fully integrated into the dome, no Below Deck Equipment
- Uninterrupted operation at northern latitudes and/or in rough sea
- Simple and space-saving installation within 5h by a single technician
- Ultralight for its category, only 37 kg weight
- IEC60945 compliance for EMI, Climatic and Vibration requirements for maritime professional products
- Pre-loaded coverage maps and dynamic signal fading detection for the best band and spot beam selection
- Remote assistance from Skytech 24/7/365 on option. Ask general conditions through our website contact form
**BB75 Ku/Ka Dual-Band**

**Technical Specs**

**Reflector:**
0.75 meters (29.5 inches) ADE carbon fibre treated with reflective tuned surface

**Ku-band:**
- TX: 13.75-14.5 GHz, Gain 39 dB (without dome)
- RX: 10.7-12.7 GHz, Gain 37.9 dB (without dome)

**G/T:**
16 dB/K @ 30° elevation
Linear polarization w/ rotating skew

**BUC type:**
Up to 16W JRC

**LNB low noise figure:**
<0.6dB Swedish Microwave Quad band

**Radome loss:**
<0.5dB, Max EIRP w/ 8W BUC: 47 dBW

**Ka-band:**
- TX: 29.5-30.0 GHz, Gain 45 dB (without dome)
- RX: 19.7-20.2 GHz, Gain 41.5 dB (without dome)

**G/T:**
17 dB/K @ 20° elevation
LHCP/RHCP Circular polarization

**BUC type:**
4W ViaSat/Eutelsat (Ka-Band) / 5W Telenor (Ka-Band)

**Dome diameter:**
0.96 meters (37.8 inches)

**Antenna weight:**
37 kg

**Operating temperature:**
-20°C/+60°C

**Antenna power:**
24Vcc – 10A or 110-230Vac (ext power supply)

**Maximum angles:**
- Roll +/- 30°, Pitch -20° / +100°
- Unlimited azimuth movement

**Rotary joint:**
Combined slip ring for Ethernet and power plus coaxial rotary joint for RF signals for the 2 external modems

**Ships motion:**
- Roll +/- 20° /sec
- Pitch +/- 20° /sec
- Yaw +/- 20°/sec

**Tracking accuracy:**
<0.2°

**Pedestal type:**
4 axes: azimuth, elevation, cross level, polarization skew

**Mechanics:**
40% carbon fiber, 60% aluminium

**GPS:**
Dual GPS antenna for compass bearing management
65 channels internal with Ultra High Tracking Sensitivity

**Internal 3-axis gyro sensor:**
9 sensors with Kalman filter cooperating with the Dual Antenna GPS module

**Tracking possibilities:**
Geostationary satellites

**Lock sources:**
Internal Broadband DVB-S2 Tuner
Internal Narrowband Tuner
External modem gain management
External modem lock
External beacon receiver (optional)
AGC carrier level

**BBController software:**
OpenAMIP compliant
OpenBMIP compliant
HTTP/HTTPS access to the antenna interface
Remote software update
Ethernet HDT input gyrocompass
Double antenna configuration with optional intelligent Switchbox (for Ku-Band operation)

**Modem capability:**
iDirect X7 or CX700 or ViaSat Ka-Sat Maritime or Hughes or Gilat or Comtech
Other technologies optional on request
Coaxial rotary joint for RF signals is also available for external modems
Auto satellite link budget calculation capability and automatic beam switch
Unlimited number of satellite configurations

**Wi-Fi and 3G/4G/LTE module (optional):**
Supports 2.4 GHz Wi-Fi with diversity antenna
Supports 2G GSM, 3G UMTS quad-band, 4G LTE

**Standards:**
Telenor
Eutelsat EESS502
FCC and IEC60945 for professional maritime equipment
This terminal can also be available in rugged version for heavy duty law enforcement and military usage fully responding to:MIL-STD-901, MIL-STD-167, MIL-STD-461

All specifications are subject to change.