

The new Ka-Band broadband on the move

INNOVATION, AGAIN

A brand new product of Skytech in the widely affirmed Ka-Band space, offering up to 20 Mbit/s of bandwidth.

Newly designed for maritime Ka-band users requiring high-speed connections and large bandwidth: yachts, passenger ferries, Oil & Gas, commercial and support vessels.

Embedding a custom RF section designed by ViaSat for maritime applications, **BB75 Ka-Band** comes in a compact design of only 36 kg of weight, equipped with a 3-axis rigid mechanical structure.

UNIQUENESS FOR ALL

BB75 Ka-Band offers agile and superior tracking performances in combination with an improved software and high precision inertial sensor, excluding the need for external gyro.

- The compact 75 cm carbon-fiber dish is treated with a tuned multi layer composite structure which improves RF efficiency, optimized for use with ViaSat's custom maritime RF section. The feed and the dish benefit from state-of-the art computer simulation software used in aerospace missions design
- The 'super tuned' dome for Ka-band is made of innovative materials and a sandwich structure, reduces losses and depolarisation effect to minimum
- -20 / +100 degrees in elevation and +/-30 degrees in roll allow uninterrupted operation at northern latitudes and/or in rough sea

COMPLIANT WITH THE FUTURE

IEC60945 compliance for EMI, Climatic and Vibration requirements means that the antenna is qualified for professional maritime equipment applications like Oil & Gas operation vessels.

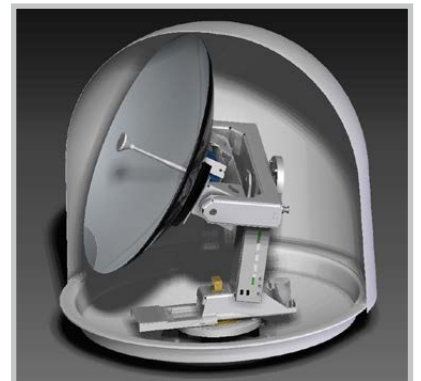
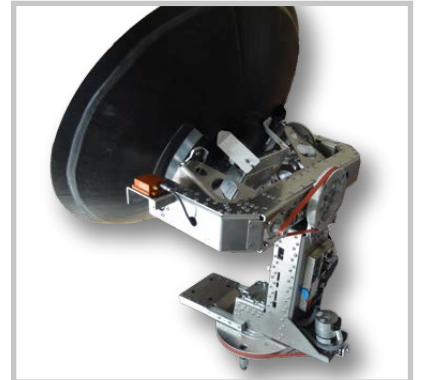
The antenna can be managed and updated locally or remotely by the same software run by Skytech for all other antenna series, making it fully supported by the Skytech Service Centre throughout its life, within a single or fleet diagnostics with intuitive web-based server, gathering real-time and historical performance information from all ships.

ACCESORIZE IT

The antenna can be managed through an App available on the Apple Store for download, making connection to your antennas mobile, fast and effective. Profile, Settings, Coverage maps and Statistics available from any enabled iPhone, iPad, iPod Touch and MacBook via secured Wi-Fi connection.

The antenna can be equipped with a 3G/4G/LTE/Wi-Fi module for remote maintenance, extending access beyond satellite coverage availability.

Dual-antenna configuration is also available, through the additional intelligent switchbox that guarantees uninterrupted operations.



Reflector:

0.75 meters (29.5 inches) diameter ADE carbon fibre

Ka-band:

TX: 29.5-30.0 GHz, RX: 19.7-20.2 GHz
LHCP/RHCP Circular polarization

Max EIRP:

47 dBW (with 2 W Viasat Transceiver), dome included

G/T:

17 dB/K @20° elevation (typical), dome included

Dome loss:

<0.3 dB RX, <0.5 dB TX

Dome diameter:

0.96 meters (37.8 inches)

Antenna weight:

36 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

Rotary joint:

Combined slip ring for Ethernet and power plus coaxial rotary joint for RF signals

Tracking accuracy:

<0.2°

Pedestal type:

3 axes: azimuth, elevation, cross level

Mechanics:

40% carbon fiber
60% aluminium

GPS:

All in view 65 channels internal with Ultra High Tracking Sensitivity

Internal 3-axis gyro sensor:

9 sensors with Kalman filter and GPS based 3D position fusion algorithm

Tracking possibilities:

Geostationary satellites
Inclined orbit satellites

Lock sources:

Internal Broadband DVB-S2 Tuner
Internal Narrowband Tuner
AGC carrier level

BBController software:

HTTP/HTTPS access to the antenna interface
Remote software update
Ethernet HDT input gyrocompass
Double antenna configuration with optional intelligent Switchbox

Modem capability:

ViaSat
Other modem/BUC/LNB technologies optional on request
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:

Eutelsat EESS502
IEC60945 for professional maritime equipment

All specifications are subject to change.