

INTRODUCING THE BRAND NEW
ULTRA SMALL KA-BAND ANTENNA "USAT"



INNOVATION, AGAIN

This new Skytech product opens the ultra-fast Regional Ka-band internet market by reaching finally all Yachts owners of small and medium size and, above all, the super-fast Yachts which for various reasons could not install an heavy standard Vsat system.

This new technological gem that is produced mainly in carbon fiber at high resistance and precision is now finally available and has a footprint of only 50 cm. weighing only 23Kg, and this technology has been designed based on the aerospace and military state of the art guaranteeing always at least 20Mb download and at least 1Mb upload while surfing even at 50 knots also under very rough sea.

One hour only of fast and easy installation and no more long and costly commissioning are required thanks to the embedded modem, only one single power cable and a simple Ethernet cable to be connected to the Wi-Fi router / PC on board, and you will get the fastest, reliable and easiest Internet access that you have ever imagined or desired to get while browsing.

Feel free to ask to test the packages offer on our web site by our authorized distributors.

- ✦ Regional Ka services for the best fast worldwide broadband satellite Internet operators
- ✦ Modem & ACU controller integrated into the dome, no coaxial cables
- ✦ Ready to use after installation, no commissioning needed
- ✦ Simplified one hour installation
- ✦ 23 Kg of weight only
- ✦ Ultra silent operation
- ✦ Does not need any maintenance for the first 5 years
- ✦ Skytech remote assistance service package 24/7/365



Reflector:

50 cm diameter ADE carbon fiber

Ka-band:

TX: 29.5-30.0 GHz, RX: 19.7-20.2 GHz

LHCP/RHCP Circular polarization

Max EIRP:

48 dBW dome included

G/T:

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

Dome loss:

<0.2 dB RX, <0.3 dB TX

Dome size:

Diameter: 57 cm

Height: 60 cm

Antenna weight:

< 23 Kg dome included

Operating temperature:

-20°C/+60°C

Antenna power:

24Vcc – 10A or

110-230Vac (ext power supply)

Maximum angles:

Roll +/- 20°

Pitch 0° / +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:

60% carbon fiber composite

40% aluminium alloy

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

Double antenna configuration with optional
intelligent Switchbox

Modem capability:

iDirect X7 or iDirect CX700 (integrated into the dome)

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 (certification in progress)

IEC60945 for professional maritime equipment of satellite
configurations

