



PRESENTATION

OF

Hi!Ka VSAT



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I. Presentation of the Hi!Ka VSAT solution

a. Presentation

To keep providing a reliable and affordable connexion in Africa, we are offering a new service on the VSAT market : **Hi!Ka**. It can provide Internet by satellite for everyone: homes, small and medium businesses, big projects...

The **Hi!Ka** solution we provide is a Ka-band technology with a Fair Use Policy (FUP). The major difference with another VSAT solutions is the high frequency used (higher than C-band or Ku-band) and the advantages procured: speed, volume of data available and price.

b. Functioning

The technology used here, like C-band or Ku-band, is a VSAT solution (Very Small Aperture Terminal) that allows to get Internet by satellite by connecting a ground station (your place), a hub (central network station) and a satellite between each other's.

The Ka-band frequency (Ka means Kurtz-above) is higher and uses sending frequencies between 27.5 GHz to 31 GHz and receiving frequencies from 17.3 to 21.2 GHz. The signals are more direct and qualitative and in a bigger number as well. The consumption is limited by a data volume, the speed connexion is variable too. These two settings depend on the option and the bandwidth chosen.

VSAT Hi!Ka set contains a dish antenna and a modem. The installation has to be made by certified professionals belonging to our network or who have a GVF certification, in order to ensure a top and secured service:

1. Check if your country is located in the area covered by our VSAT Hi!Ka



2. Order the Hi!Ka equipment and choose the speed and the data volume you need



3. Our technicians install your device and you can use directly Internet via Hi!Ka !



c. Countries and coverage

The Hi!Ka technology is possible thanks to the action of the satellite Hylas 2 located 31 degrees East and available for the regions covered in South and East Africa. This coverage spot is indicated below:

- Coverage spot :



Hi!Ka service is available in the following African countries :

- Countries entirely covered :

BURUNDI	LESOTHO	SOUTH AFRICA	KENYA
ZIMBABWE	SWAZILAND	RWANDA	TANZANIA

- Countries partially covered :

UGANDA, East	BOTSWANA, South and North East	ETHIOPIA, Extreme South	SOMALIA, Extreme South
ZAMBIA, Extreme South East and Middle East	MOZAMBIQUE, Middle West	MALAWI, North	DRC, Extreme Middle East

*Please check with us if your location is covered. Hi!Ka is also working in Libya, South East of Europe and some countries of the Middle East. Please ask for more information *

In order to ensure you the best service and have the most adapted VSAT equipment (dish size antenna, right BUC/LNB), we will kindly ask you to give us the GPS coordinates of the location you want to implement your Internet connection.

d. Hi!Ka characteristics

- High speed Internet directly from the satellite to your place
- Faster on average (signal more dense) for a similar service compared to C-band and Ku-band
- Best value for Internet by satellite
- Fast and automatic commissioning of the terminal

II. The equipment

a. Composition of the package

In our VSAT Hi!Ka package, you will find :

- A parabolic oval dish antenna with a diameter minimum of 74 cm (or 98 or 120) and a Ka-band modem (Hughes 9600) of 1 W (up to 2 W)
- 1 Watt BUC and LNB (up to 2 W) for transmitting/receiving data

Please be aware that you will not find in the package:

- Cables and connectors for the commissioning: 30 Meter RG 6 Cable, RG 6 Crimp Connectors and 60 mm OD Wall Mount Bracket
- Mast for mounting the antenna on a wall or on the ground

Customised bundles are available upon request and can contain for instance a wireless router or some telephony equipment (VoIP) or peripherals.

b. Composition of the packing list



- The complete standard kit (74cm antenna) contains 2 parcels for a total weight of 19.8 kg



74 cm Antenna

- Length: 107 cm
- Width: 18 cm
- Height: 70 cm
- Weight: 10.4kg



Modem, accessories and BUC/LNB

- Length: 60 cm
- Width: 30 cm
- Height: 30 cm
- Weight: 9.4 kg



BUC and LNB :



Rest of the equipment of the antenna



Depending on the coverage, if your place is located on the edge of the footprint, you may use a bigger dish antenna and a bigger BUC/LNB to catch the signal.

Characteristics of the 98cm antenna Hi!ka kit (3 boxes):

- 101x101x12 - 12.5Kg
- 57x31x32 - 5.5Kg
- 60x30x20cm - 4kg

Characteristics of the 120cm antenna Hi!ka kit (4 boxes):

- 142x125x18 - 13.6Kg
- 38x38x30 - 6Kg
- 155x20x20 - 5.5kg
- 60x30x20cm - 9.4kg

c. Some technical specifications

PHYSICAL INTERFACES

- One 10/100BaseT Ethernet LAN RJ45 port

SATELLITE AND ANTENNA SPECIFICATIONS

- Outbound transmission format: DVB-S2
- Information Rate: Up to 121 Mbps (Receive or Outbound Channel)
- Information Rate: Up to 3.2 Mbps (Transmit or Inbound Channel)
- Symbol Rate (Receive): 1 to 45 Msps (in 1 Msps steps)
- Symbol Rate (Transmit): 256, 512, 1024, 2048 ksps
- Encoding (Receive): DVB-S2 LDPC/BCH
- Encoding (Transmit): Turbo-code FEC 1/2, 2/3, and 4/5
- Frequency Range: Ka-band
- Modulation (Receive): QPSK, 8PSK, 16APSK
- Modulation (Transmit): OQPSK
- Bit Error Rate (Receive): 10⁻¹⁰ or better
- Bit Error Rate (Transmit): 10⁻⁷ or better
- Antenna: 74 cm, 98 cm, 120 cm
- Radio: 1 and 2 watt Ka-band

MECHANICAL AND ENVIRONMENTAL

- Weight: 1.6 lb (.73 kg)
- Dimensions: 8.0" H x 1.6" W x 9.0" D (20.3 cm H x 4.1 cm W x 22.9 cm D)
- Operating Temperature: 0° C to 50° C
- Input Power: 90 to 264 VAC; 50 to 60 Hz
- DC Power Supply (Optional): 12 to 24 VDC

III. Functioning of the bandwidth

The bandwidth is the number of Gb we are consuming whilst surfing on internet. Every single time you are loading a new web page, information is transferred. This is a quantity of data transferred and calculated as bandwidth.

When we download videos or music, when we watch TV shows online or when we listen to the radio on Internet, it is also information downloaded that come in plus to the total of bandwidth you use. Following your monthly consumption, you have an access to different bandwidth, from 5 to 50 Gb for home solutions and from 50 to 350 Gb for business solutions. One of the business solutions we

provide is uncapped (the only uncapped one among all our solutions) with a 1 000 kbps/500 kbps speed. **Whatever the option chosen, you can use the Free Download/Upload at Night feature from midnight to 7 am EAT.**

These are few indications for better understanding how you are using your bandwidth:

- 1 Gb (Gigabit), is equal to 1024 Mb (Megabit)
- 1 HD music video of 45 minutes = more than 329 Mb
- 1 hour of Internet surfing = 5Mo
- 1 e-mail = 500 Kbits
- 1 MP3 music = 3Mo
- 1 video of 10min = 60Mo

a. Price list

The starting price for the equipment kit worth 741\$.

Price list and monthly options:

Hi!Ka Home Service Package	Headline Speed in Kbps (download)	Speed in Kbps (upload)	Monthly Inclusive Data in Gb	Monthly charge	Activation Charge	Charge per Excess Gb
Hi!Ka Home 500	512	128	5	\$49	\$36	\$14
Hi!Ka Home 1 000	1,024	256	15	\$53	\$36	\$14
Hi!Ka Home 2 000	2,048	512	20	\$86	\$36	\$14
Hi!Ka Home 4 000	4,096	1,024	25	\$116	\$36	\$14
Hi!Ka Home 6 000	6,144	1,536	35	\$153	\$36	\$14
Hi!Ka Home 10 000	10,240	2,048	40	\$183	\$36	\$14
Hi!Ka Home 15 000	15,360	2,560	50	\$233	\$36	\$14
Hi!Ka Business Service Package	Headline Speed in Kbps (download)	Speed in Kbps (upload)	Monthly Inclusive Data in Gb	Monthly charge	Activation Charge	Charge per Excess Gb
Hi!Ka Business 2000	2,048	512	50	\$191	\$36	\$14
Hi!Ka Business 4 000	4,096	1,024	75	\$281	\$36	\$14
Hi!Ka Business 6 000	6,144	1,536	125	\$447	\$36	\$14
Hi!Ka Business 10 000	10,240	2,048	250	\$748	\$36	\$14
Hi!Ka Business 15 000	15,360	2,560	350	\$1,065	\$36	\$14
Hi!Ka Business Unlimited	1,024	512	unlimited	\$588	\$36	\$14

Free Download/Upload at Night feature from midnight to 7 am EAT.

Equipment	Price
Hughes HN9600, 74CM dish, 2W Ka Transceiver	\$1,028.30
Hughes HN9600, 98CM dish, 1W Ka Transceiver	\$ 854.10
Hughes HN9600, 98CM dish, 2W Ka Transceiver	\$ 1,153.10
Hughes HN9600, 120CM dish, 1W Ka Transceiver	\$ 1,342.90
Hughes HN9600, 120CM dish, 2W Ka Transceiver	\$ 1,684.80

The three main options for your equipment are the following ones:

- 74cm dish antenna with a 1W BUC (Ka transceiver)
- 98cm dish antenna with a 2W BUC
- 120cm dish antenna with a 2W BUC

IV. Advantages of the solution

Acquiring VSAT Hi!Ka will make you benefit to a reliable and fast Internet connexion, adapted to your needs but also at a very interesting price compared to the VSAT technologies which are on the market.

Buying the Hi!Ka equipment does not force you to get straight away a bandwidth subscription. After the commissioning of the device, you can activate your line by subscribing to a bandwidth or activate it later and choose the right time for you.

With VSAT Hi!Ka, you have the opportunity to change your option whenever you want (one week notice before the beginning of the next month is necessary). For instance, you can start to use your connexion with the 1 000 Kbit/s speed for a month and then up your option the month after when your needs have raised.

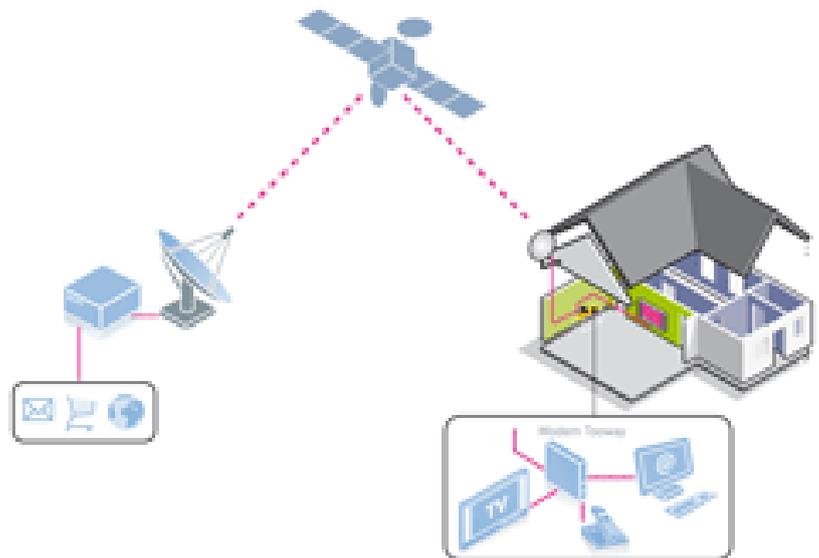
VSAT Hi!Ka is an excellent choice for those who need :

- High speed internet directly from the satellite to your place
- Equipment and Internet thanks to Ka-band and the best value for money ever
 - Flexibility (Pay-per-view)
 - Until 15 Mbps downlink speed

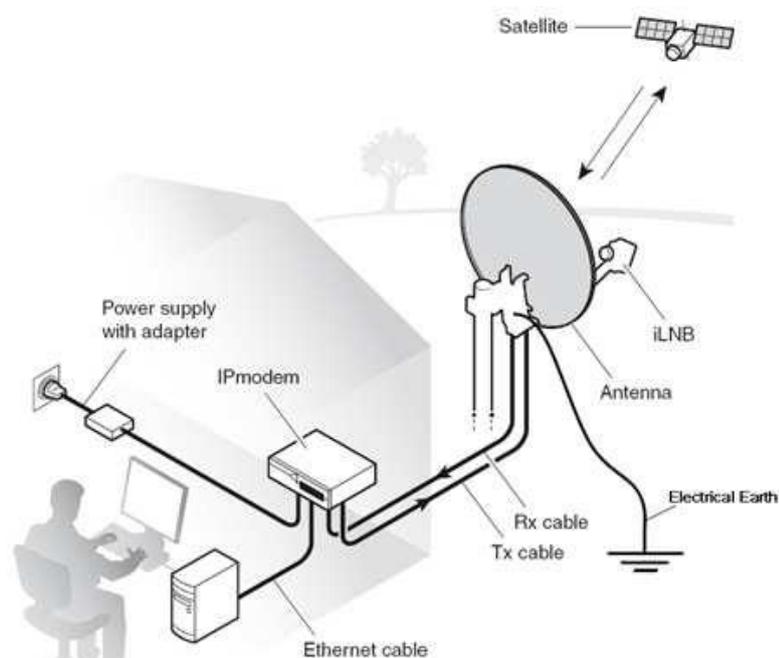
V. Domains of application

VSAT Hi!Ka is the last born of the VSAT technology products. It makes its difference by its price more competitive, its connexion speed and its data volume compared to other non-unlimited solutions. The choice flexibility regarding speed connexion makes this product well adapt to everyone, from a home use to massive projects purpose or even business solutions for small and medium companies.

- Home use connexions



- Connexions for small and medium businesses, public administrations...



- Connexion for specialized and time limited projects (mines, rigs, ...)



VI. Financial proposal

Price list of the equipment:

N	Description	Technical specifications	Quantity	Unit Price	Total Price	Country of origin
1	Hi!Ka standard equipment	Dish antenna + Modem Hughes	1	741\$ Discount according subscription	... \$	UK
2	Shipment	Transportation of the hardware to the client	1	Upon request	... \$	UK
3	Optional	TV equipment, VoIP, router...	...	Upon request	...	UK
Sub Total					... €	

- *The shipment price can be different according to the country chosen.*
- *Get 150\$ off on the equipment price if you subscribe for 6 months.*

Contact us

Do you want to contact us?

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