

10 Mbps with KA-SAT

In the second half of 2010, Eutelsat will launch a satellite fully dedicated to Tooway™ internet services in Europe. With its 82 Ka spot-beams and a network of 8 gateways on the ground, KA-SAT will supply more internet capacity than any other satellite in the world serving up to two million users. It will deliver a total throughput of 70 Gigabits per second, which will allow downlink speeds up to 10Mbps and uplink speeds of 1 Mbps.

The use of small spot beams, combined with frequency re-use and the full availability of the ka band are some of the key features that define KA-SAT's advantage.



KA-SAT coverage over Europe and the Mediterranean Basin

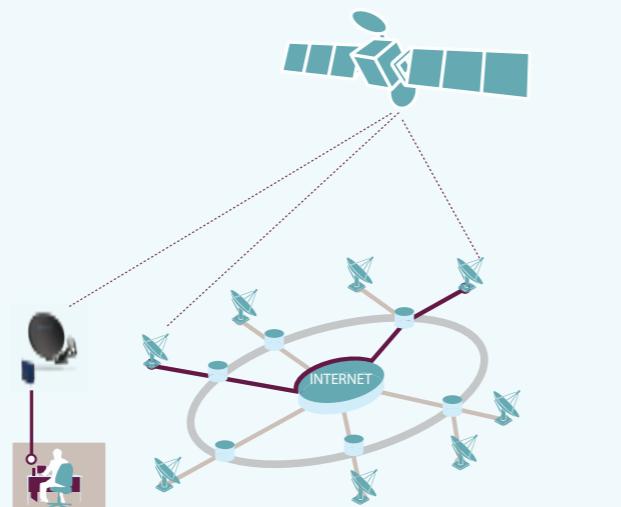
The sky's the limit with high-speed consumer internet via satellite

HOW IT WORKS

IN SPACE : each of the satellite's spotbeams covers a landmass 500 km in diameter and uses a group of frequencies also used by several other distinct spotbeams.

ON GROUND: a terrestrial network of eight hubs interconnected with a dedicated MPLS internet backbone.

AT THE SUBSCRIBER: a two-way antenna is connected via a modem to one or more PCs.



Tooway™, high-speed internet everywhere

A new generation of broadband internet delivery that fills the terrestrial gap



European demand for broadband internet access is at its highest ever. Currently some 20 million homes across Europe cannot access ADSL or cable networks and this will only decrease to 15 million homes by 2010.

That's why Eutelsat and ViaSat have pooled their expertise to deliver a new system for two-way broadband services. Uniting the skills of Europe's leading satellite operator, working with its Skylogics broadband affiliate, and ViaSat, a world leader in consumer broadband products and innovative satellite networking systems, Tooway™ is a new generation of two-way satellite services, which enables uplink and downlink communications via satellite.

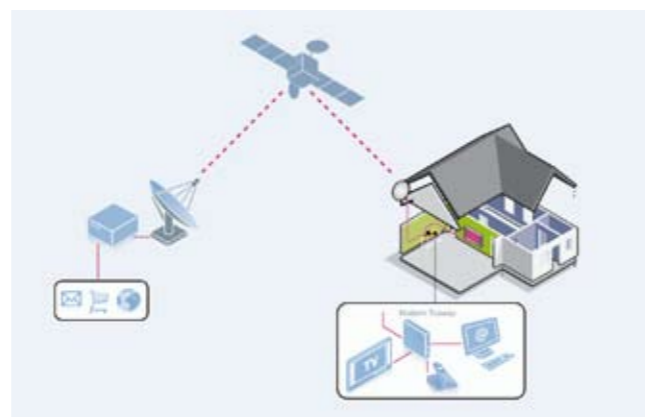
The operational technology and service that forms the basis for Tooway™ has already been successfully

installed in over 500000 homes and offices across North America and Canada in just under two years, and so far the take-up in Europe has been extremely successful.

Low costs make Tooway™ the affordable choice for consumer broadband services

Tooway™ principally targets consumer markets with hardware and installation costs at a fraction of the cost of professional broadband access systems.

The key advantage of Tooway™ is that it eliminates the need for a terrestrial internet access component at the subscriber's premises, which improves the availability and speeds of broadband internet access.



How it works

Tooway™ connects homes via satellite at up to 60 times faster than a standard dial-up connection. A satellite dish and a Tooway™ modem are all that's required.

Packages designed to fit the different needs of home users

The Tooway™ service allows download up to 3,6 Mbps and upload up to 384 Kbps and is offered in a range of four different packages tailored to fit the varying requirements of home-users and small business: Basic, Bronze, Silver and Gold. A Fair Access Policy has been designed to ensure that exceptional usage by a few customers does not negatively impact on the normal usage of other customers.

End-user tariffs are defined by local service providers partnering in the distribution of the Tooway™ service.

	KU-BAND	KA-BAND
MAX. DOWNLINK	3,6 Mbps	3,6 Mbps
MAX. UPLINK	384 kbps	384 kbps

Triple-play and DTH (Direct-to-Home)

Tooway™ can also be configured to enable the following triple-play applications:

- + Television in addition to broadband Internet, with an additional one-way receiver
- + VoIP in addition to broadband Internet, with the connection of dedicated VoIP equipment

These options are available on both Ka and Ku antennas. A Wi-Fi home network can be embedded at a low supplementary cost.

Features that bring a wide range of user benefits

- + Low cost broadband satellite modem
- + Built-in security
- + Built-in TCP and Web acceleration functions to mitigate latency
- + 10/100 Mbps Ethernet interface
- + Adaptive Coding Modulation reduces the sensitivity to bad weather conditions

A hardware set-up with no surprises for your customers

To receive Tooway™, consumers need not worry about managing new hardware standards, installing any additional software or re-configuring their PC. The system comprises an exterior dish of 68cm for Ka-band and 90cm for Ku-band frequencies, plus an internal modem with a sleek design to fit with other consumer IT equipment. The modem interfaces to a PC or home network via a standard Ethernet connection (10/100 Mbps).



Ka-band hardware

European-wide coverage

The service operates via Eutelsat's HOT BIRD™ 6 satellite at 13° East, using Ka-band frequencies, and in Ku-band on the company's EURO BIRD™3 satellite at 33° East.

Eutelsat's broadband subsidiary Skylogics manages the hub operations from its SkyPark teleport in Turin, Italy.