



High Speed Wireless Broadband and Security

AnyMAX

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EDITO

Considering the fact that there has been a significant reduction in the costs of network equipment and videosurveillance cameras, in the past few years, it appeared necessarily to rationalize equipment installation procedures, in order to allow fast and inexpensive deployments.

Avoiding civil engineering works and re-use of existing infrastructures are the two basic ideas that rule the design of AnyMAX products. Our products also integrate all the know-how of the Altitude Group in wireless technology.

Flexibility, evolution and modernism are the values that we share with the local government and which make AnyMAX a company impossible to avoid on the market.



Jean-Paul Rivière
CEO

1. AnyMAX ?

AnyMax is a company of the Altitude Group the purpose of which is to allow dense and fast deployments of wireless broadband networks and videosurveillance systems. It currently exploits a patented installation process by developing equipments that easily integrate on existing lampposts. The system, based on the patent, makes it possible to avoid all heavy work necessary for wiring equipments (network and electrical) by using WiMAX as a backhaul system and a combination of battery and charger as power supply. AnyMAX also adapts to all other configurations by proposing different backhauling systems (DSL, wireless 5.4 or 5.8 GHz). The batteries are recharged during night time when the lamppost is lit and power supply the system during the day.

As a subsidiary company of the Altitude Group, AnyMAX profits from Altitude Telecoms unique experience in wireless technologies, of its knowledge in the IP operator field, as well as its experience in territorial digital development.

The AnyMAX approach uses WiMAX base stations:

- Not expensive
- Numerous
- Improving territories broadband coverage or videosurveillance system
- With low urban environmental impact
- Easy and quick to deploy

....and also videosurveillance system

- With unwired connections
- With a large choice of IP and analogical cameras

AnyMAX has developed patents related to the power supply of urban base stations and to the use of other supports for town and country developments.

2. AnyMAX solution

AnyMAX allows:

- **To cover a city with a wireless broadband network quickly, and at a minimized investment**
- **To set up a wireless videosurveillance system**
- **To offer a territory a technological advance able to stimulate its economic activity**

Thanks to AnyMAX stations, fixed on city street lights, the AnyMAX solution makes it possible to cover quickly territorial residential areas with a broadband wireless network (Internet, telephony, video.).

This patented solution integrates a Wi-Fi or WiMAX base station (to provide the coverage of an entire zone with a wireless broadband network) or a videosurveillance camera, an accumulator (which provides a power supply for the active elements while recharging itself on lampposts non permanent power supply) and a data transmission device (Optical Fiber, WiMAX, SDSL etc.).

Thanks to the AnyMAX terminals fixed on certain lampposts, a zone can be quickly covered out with a broadband wireless network or a videosurveillance system.

This solution is made of the most recent backhauling technologies (WiMAX, DSL,..) and an ingenious battery system which ensures the power supply of the active elements when the street light is not electrically supplied. Moreover, it includes a service module (compatible IP device) which can vary according to the desired product.

At the present time, there exist 2 types of terminals:

- a wireless broadband terminal in order to completely cover out a zone with a broadband network
- a videosurveillance terminal, aimed at ensuring territorial's security

AnyMAX proposes 4 types of "backhauling" that can be found on a covered zone and which make the product adaptable to all existing configurations:

- WiMAX
- DSL
- Frequency 5,4 or 5,8 GHz
- Optical Fiber

3. AnyMAX' strengths

The AnyMAX equipment, fixed on a standard lamppost, allows all the flexibility of an inexpensive wireless solution with a low environmental impact. Therefore, even the local governments' most ambitious projects are feasible without all the expensive heavy work related to the wiring for the residents.

Thanks to this very innovative solution, the communities benefit from all the positive aspect of a quality, easy to use and to install system. Thus, the product allows:

- **A minimized investment**

- **No wired connection**
- **Simplicity of installation**
- **No civil engineering labor**

- **A low environmental impact**

- **No heavy metals in the terminals composition**
- **Recovery and recycling of the batteries by AnyMAX**
- **Recovery of existing supports (lampposts)**
- **Small dimension**

- **A single representative for sites management**

Thus, the AnyMAX solution makes it possible for communities to reduce the cost of network facility and to accelerate the deployment of a wireless broadband networks or a videosurveillance systems in chosen areas.



Wireless Broadband product



CCTV product

4. WiMAX specifications

The 802.16 standard (WiMAX), ratified in 2004, profited from the experience accumulated during the development of various 802.11 standards (WiFi) as well as the work carried out on the Wireless Local Loop.

The keen interest of various equipment suppliers for this technology greatly accelerated the process.

WiMAX represents the future wireless technology, and the evolutions to come this demonstrate the fact that this technology will be present in the long term in all the terminals:

- 2006: outdoor and indoor CPE
- 2008: PCMCIA cards
- 2009: CENTRINO/integration PC
- 2009: WiMAX mobile phone
- 2009: WiMAX will be a standard radio interface present on "all" terminals

WiMAX also has many various applications such as:

" Fixed uses":

- To cover unwired areas
- To offer an alternative in "grey area" in order to stimulate competition
- To offer a broadband symmetrical access for new services and alternate operators (VoIP,...)

" Nomad" uses:

- Nomad internet for all: private and professional
- An alternative wireless networking
- MVNOs offers, a complementarity fixed WiMAX service and mobile UMTS, a economical factor and open services
 - Wireless VoIP

A frequency adapted to the industrial usage such as for highway maintenance services, firemen, harbors...

5. Altitude Holding

The Altitude Group has developed five recognized know-how, through its subsidiary companies.

The Altitude Group, owned at 100% share by its founder Jean-Paul Rivière, is divided into several entities which target markets are different:

- Altitude Telecom works with companies
- Altitude Infrastructure whose core activity relies on the national digital planning development and therefore works primarily with local governments.



As a telecommunications operator, Altitude Telecom has been provided for more than 10 years Internet - data - voice on IP solutions adapted to the companies needs.

In order to carry out this particular mission, Altitude Telecom uses its technical expertise (xDSL, BLR-WiMAX, fiberoptic, ISDN, GPRS-EDGE,...), and its network performance. By betting at a very early time on MPLS technology, Altitude Telecom has developed technological competencies and created an efficient service offer in virtual private networks. Nowadays, Altitude Telecom relies on this expertise to optimize its services: personalized solutions, cost reduction, meeting the deadlines and quality follow-up are its strong core competencies.

Pioneer of the private virtual networks (VPN IP MPLS), Altitude Telecom tallies more than 500 company networks, which represent more than 12.000 sites connected in France.

Thanks to the control of the overall telecommunications technologies, Altitude Telecom benefits from the best French market spread, to meet company's and local governments' needs.

At an international level, Altitude Telecoms service coverage is ensured by close partnerships with the world's main operators.



Altitude Infrastructure activity consists in helping the territorial actors to build, develop and exploit an alternative telecommunication network, opened to all network providers in France.

A true partner of the local communities, Altitude Infrastructure accompanies them in their territorial development project, in order to mitigate the lack of services and to support the competition emergence, for the greatest benefit of the end users.

As an operator, Altitude Infrastructure uses its expertise in the overall telecommunications technologies and on its background management of already existing networks.