

# Professional equipment

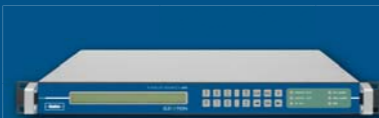
The Professional Equipment business line offers off-the-shelf equipment for broadcasters, network operators and service providers.



## AZIMUTH SERIES



Azimuth is just one of several Newtec solutions that has become an industry standard. This product line consists of stand-alone equipment used for professional digital communication via satellite by customers who require the highest bandwidth efficiency, reliability, flexibility, scalability, and a variety of features at a competitive price. The baseline of the family is a range of advanced DVB-S and DVB-S2 modulation equipment designed specifically for broadcast, telco and Wide Area Network applications. It is completed by a series of generic frequency converters/combiners, redundancy switches and data converters that can be used for any satellite application.



## ELEVATION



Our Elevation product family is specially designed to transmit and optimize IP traffic over satellite. It includes modems, receivers, appliances, modulators and demodulators. Elevation truly optimizes the efficiency of applications such as IP trunking, IP backbone, multicast content distribution and private networks. It provides the interfaces to integrate seamlessly with the terrestrial part of the IP network while integrating the most advanced software to encapsulate, route, shape, accelerate and protect the IP traffic. The award winning FlexACM® is a capability on Newtec's Elevation product line that allows simple, yet very efficient implementation of DVB-S2 ACM (Adaptive Coding and Modulation) in IP trunking and IP backbone systems, doubling satellite throughput and customer satisfaction by providing 100% link availability.



## horizon



The Horizon product line offers professional equipment for the market of primary satellite distribution of video and radio content for mobile and terrestrial TV networks. Such networks are typically divided into several hundreds or even thousands of cells, each cell needing its own transmission tower. To distribute broadcast content to all those transmission towers, satellite is the perfect solution. The Horizon family consists of a series of equipment to be installed in the transmission towers in order to receive media content from the satellite, process content for local customization of the programs, synchronize the signals with other towers and re-transmit the TV and radio programs terrestrially towards the handheld devices and/or the digital TV receivers.



# Broadband Systems

Newtec's broadband systems offer high-speed 2-way satellite connectivity to large numbers of remote sites. They consist of a scalable hub infrastructure for the network operator and cost-effective, fully integrated terminals for the users. Broadband Systems include two distinct offerings, Sat3Play™ and MENOS, which serve the Consumer Broadband Access market and the Broadband Content Exchange/Video Contribution market, respectively.



## Sat3Play



Sat3Play™ is an award winning hub-and-terminal satellite consumer broadband access system, enabling triple-play services such as high speed (i.e. true broadband experience) Internet and voice over IP, with the possibility to extend to digital/interactive television. Sat3Play™ overcomes many of the drawbacks that have so far limited the growth of satellite based broadband systems, offering a true broadband experience by incorporating DVB-S2 modulation and coding, DVB-RCS and SATMODE (GMSK) technology in the most affordable terminal on the market. In addition, the system offers rain fade countermeasures, end-to-end Quality of Service ("QoS") mechanisms and leading acceleration and compression technologies. The unique Point&Play feature allows the end-user to install the terminal themselves without any specific skill or tool, further reducing the initial investment for having access to the service.

Unsurpassed in flexibility and scalability, the Sat3Play network architecture is modular and allows several service operators to share the same hub infrastructure in order to offer broadband services where no terrestrial broadband connection is available and at a competitive price.



## MENOS



Multimedia Exchange Network Over Satellite ("MENOS") is a state-of-the-art multimedia interactive network system enabling the high speed exchange of video and audio materials in IP format. MENOS delivers substantial transmission and network operation efficiencies to professional broadcasters (television networks and broadcasting unions) allowing them to share video and audio contents in real time across several geographies. Current broadcasters' video contribution processes are inefficient as a result of cumbersome manual feeds of and requests for digital video contents; the deployment of MENOS enables highly efficient workflows by offering a fully automated content exchange platform. Furthermore, the system replaces expensive uplink equipment with one hub station, which also provides permanent two-way satellite IP connectivity among all remote stations. MENOS architecture is characterised by a hub station, which serves as a central platform of the system, and the satellite interactive terminals ("SIT") in the remote sites. SITs can also be integrated into mobile units, in the form of DSNG trucks or "flyaway" kits.

# IP Software

**tellitec**



Tellitec, Newtec's family of professional telecom software, is designed to optimize data communication via satellite, cable and wireless networks. The Tellitec family includes software modules for fast, efficient and secure data communication: TelliNet for TCP/IP acceleration, TelliCast for IP multicasting, TelliShape for Quality of Service management.

Essentially, Tellitec IP software gets more out of your available bandwidth. The negative effect of round-trip delays of data transmissions is significantly reduced by using superior TCP/IP acceleration mechanisms. Traffic is also reduced through packet aggregation and the most powerful compression techniques around. Increased bandwidth efficiency means reduced costs.

Tellitec IP software comes with a truly powerful proposition. Off-the-shelf or tailor-made, its modules integrate smoothly with existing infrastructures, bringing you the speed, the efficiency and the security you require. No wonder Tellitec is used by service providers, telco operators and governments around the globe for the distribution of critical data as well as the provisioning of end-consumer services.



# satcom solutions

- Professional equipment
- Broadband systems
- IP software



SHAPING THE FUTURE OF SATELLITE COMMUNICATIONS