

Professional equipment

AZIMUTH SERIES



Modulators

Demodulators

Modems

Frequency converters and combiners

Data converters

Redundancy switches



SHAPING THE FUTURE OF SATELLITE COMMUNICATIONS

Azimuth Key Features

Azimuth is a family of professional satellite communication equipment designed to provide reliable and flexible solutions for a wide range of broadcast satellite communication applications.

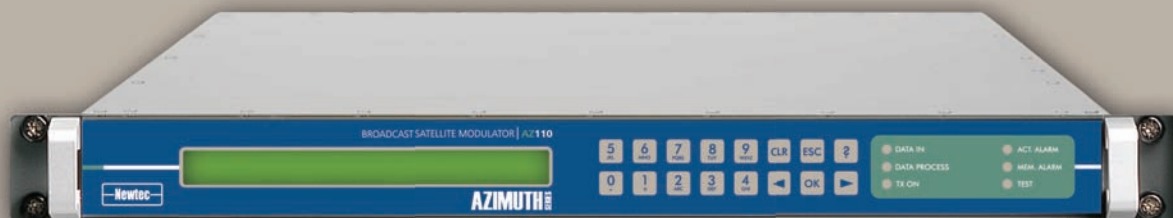
The Azimuth family includes a wide range of DVB-S and DVB-S2 modulators, demodulators and modems for broadcast (contribution, distribution and DSNG), telco and Wide Area Networks applications. This modulation equipment achieves the highest bandwidth efficiency in transmitting transparently data or digital video content over satellite. As DVB-S2 specialist and market leader, Newtec has also equipped its Azimuth modulation equipment with the most advanced DVB-S2 options, such as a Base Band frame input mode, Multi-stream Variable Coding and Modulation (VCM), Adaptive Coding and Modulation (ACM) and the higher modulation schemes 16APSK and 32APSK.

With DualFlow™, an innovative technology developed by Newtec and included into all Azimuth broadcast equipment, Broadcasters can easily migrate to satellite IP-based operation through interfacing with both ASI and IP networks. DualFlow™ allows broadcasters to transport simultaneous live broadcasting and data over satellite and enables two-way connectivity introducing new interactive services to boost productivity

Azimuth also includes high quality generic satcom equipment such as frequency converters and combiners, redundancy switches for any type of input or output signal, and interface adapters.

The Azimuth products can be purchased with various configuration choices and hardware or software options. It is possible to upgrade the capabilities of the devices in the field. It is even possible to purchase a DVB-S unit and upgrade to DVB-S2 later on. At the RF side, the satellite link budget can be improved by up to 2dB by activating the Equalink™ linear and non-linear predistortion option on the modulator or modem. To secure the satellite transmission, BISS scrambling or AES encryption can be activated.

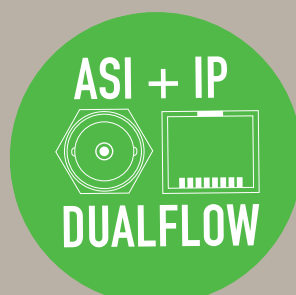
- Exhaustive implementation of the DVB-S and DVB-S2 standards
- DualFlow™
- Highest bandwidth efficiency
- Equalink™ linear and non-linear predistortion
- High Speeds up to 155 Mbit/s/68Mbaud
- AES encryption / decryption
- Wide range of input and output interfaces
- Wide range of IF, L-band and RF interfaces
- Fully customizable redundancy solutions



Professional equipment

Broadband systems

IP software



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Modulators

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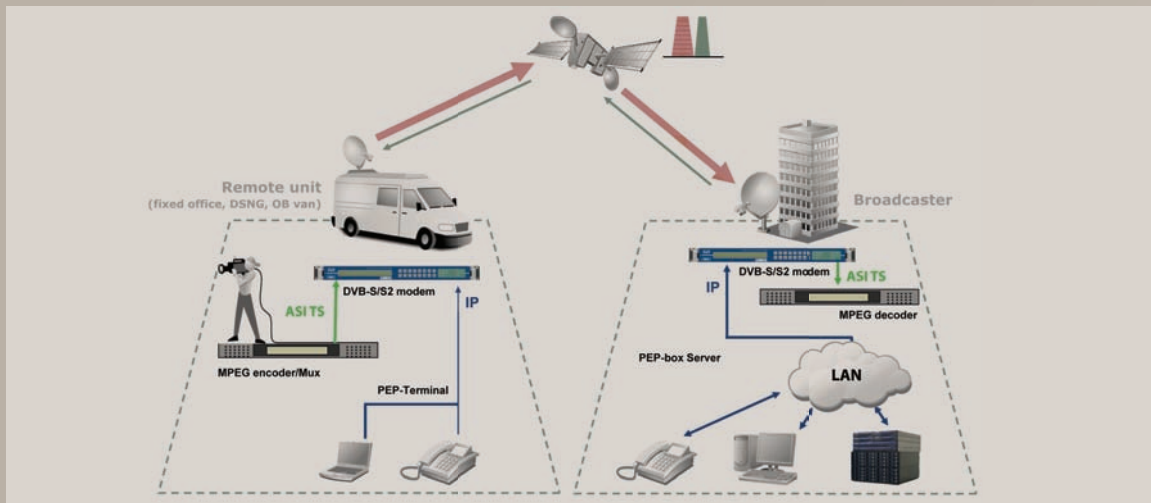
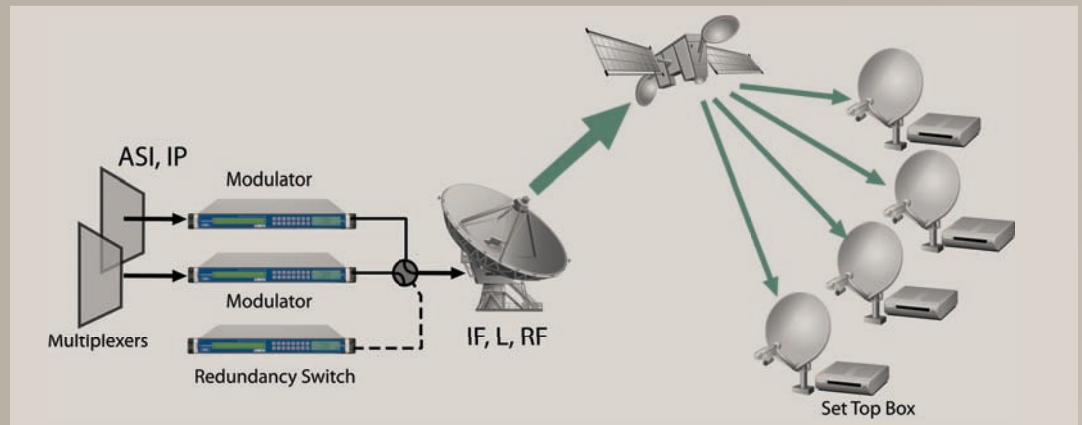
Data converters

Redundancy switches

Azimuth Applications

DTH

- Variable rate
- Single and multiple channels per carrier
- ASI and IP interface
- Up to 45 Mbauds

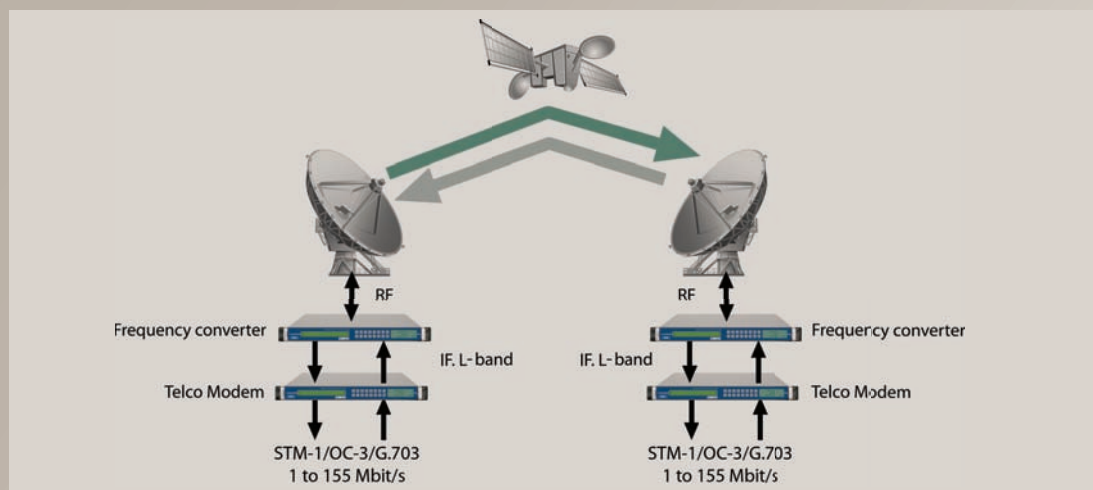


Contribution

- DualFlow™
- ASI and IP interfaces
- Live broadcasting and IP
- Interactive services

Telco

- Fixed rate
- Point-to-point
- G.703 and OC-3 interfaces
- Up to 155 Mbit/s



APPLICATIONS

- Direct-to-Home broadcast
- Broadcast contribution
- DSNG and interactive DSNG
- Primary broadcast distribution
- Point-to-Point telco links
- Backbone
- Cable redundancy and restoration
- Wide Area Networks

Azimuth Key Advantages

Proven Performance

Azimuth combines an optimum implementation of the DVB modulation standards with the best RF performance. Unique features such as Equalink™ pre-distortion, DualFlow™, the implementation of advanced options of the DVB-S2 standard and security features such as BISS and AES allows reaching performance levels far above other systems.

Proven interoperability

All Azimuth devices are fully compliant with DVB-S and DVB-S2 standards and operate successfully with equipment from other vendors.

Proven Reliability

With years of track record and thousands of units deployed, Azimuth has a stellar reputation of reliability and performance in the industry.

Proven Flexibility

With a multitude of hardware and software options to choose from, customize your Azimuth device according to the requirement of your application.

Proven Scalability

Buy the configuration and the capabilities you need and upgrade when necessary with a simple password. You can even start in DVB-S and upgrade to DVB-S2 later.

Shaping the future of satellite communications

Newtec is world renowned as a market leader in Satellite Communications, delivering an extensive range of highly innovative products and solutions.

Since our foundation in 1985, TV broadcasters, Telecom Service Providers, Integrators and Satellite Operators from all over the world have been relying on the exceptional performance and reliability of our unrivalled products.

At Newtec, we are committed to further innovating and in turn revolutionizing the satellite communications industry. We are able to achieve this through our passion for continually developing and perfecting new technologies. We design applications that use these technologies to best serve the specific needs of our customers. As part of our philosophy of openness, Newtec is also an active participant and a trendsetter in many industry standards.



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