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.

**Azimuth Key Advantages**

**Proven Performance**

Award-winning end-to-end implementation of the DVB modulation standards with the best IP performance. A proven benefits suite for satellite MUX, pre-distortion and for implementation of advanced options of the DVB-S2 standard into existing performance levels for existing satellite 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**

Every piece of equipment in our Azimuth display. Newtec has a stellar reputation of reliability and performance in the industry.

**Proven Flexibility**

With a solid base of hardware and software options to choose from, customize your Azimuth device according to the requirements of your application.

**Proven Scalability**

Pay the configuration and the capabilities you need, and upgrade the necessary with a single password. You can even start in DVB-S and upgrade to DVB-S2 later.

**Shaping the future of satellite communications**

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Azimuth is a family of professional satellite communication equipment designed to provide reliable and flexible solutions for a wide range of 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, and is also used in many other applications. This modulation equipment achieves the highest bandwidth efficiency in transmitting transparent 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 (VVCM), Adaptive Coding and Modulation (ACM) and the higher modem schemes 16APSK and 32APSK.

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 by purchasing a range of licenses to be entered directly on the front panel. It is even possible to purchase a DVB-S unit and upgrade it to DVB-S2 later on. At the RF side, the satellite link budget can be improved by up to 2dB by activating the EqualinkT linear and non-linear predistortion option on the modulator or modem.

**Azimuth Key Features**
- Exhaustive implementation of the DVB-S and DVB-S2 standards
- ABS-S compliant
- Highest bandwidth efficiency
- EqualinkT linear and non-linear predistortion
- Wide range of input and output interfaces
- Fully customizable redundancy solutions

**Azimuth Applications**

**Broadcast**
- Direct-to-Home broadcast
- Broadcast contribution
- DSNG and interactive DSNG
- Primary broadcast distribution
- Multicast broadcast
- Cable to home delivery
- Video on demand
- ISDB-T distribution

**Telco**
- Mobile and static services
- Video broadcast
- Single and multiple
- HSSI interface
- Up to 110 Mbit/s
- Single and multiple
generated on a carrier
- ASI and IP interfaces
- Up to 45 Mbauds

**Wan**
- Fixed rate
- Single and multiple
- Up to 155 Mbit/s
- Single and multiple
- Up to 110 Mbit/s
- Fixed rate
- G.703 and OC-3 interfaces
- Up to 155 Mbit/s
Azimuth is a family of professional satellite communication equipment designed to provide reliable and flexible solutions for a wide range of 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.

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 extensive configuration options and hardware or software options. It is possible to upgrade the capabilities of the devices in the field by purchasing simple license keys to be entered directly on the front panel. 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.

Azimuth Key Features

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

Azimuth Applications

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

Broadcast

- Modulators
- Demodulators
- Modems
- Frequency converters and combiners
- Data converters
- Redundancy switches

Telco

- Variable rate
- Single and multiple channels per carrier
- ASI and IP interface
- Up to 110 Mbit/s

Wan

- Variable rate
- Point-to-point
- Variable rate
- Internet
- Up to 155 Mbit/s

Applications
Azimuth is a family of professional satellite communication equipment designed to provide reliable and flexible solutions for a wide range of 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 receiving transparent data or digital video content over satellites. DVB-S2 operated in packet mode funded by Newtec has also equipped its Azimuth modulation equipment with the most advanced DVB-S2 options such as: Adaptive Coding and Modulation (Adaptive Coding and Modulation (ACM) and the higher modulation schemes 16APSK and 32APSK).

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 options. It is possible to upgrade the capabilities of the product in the field by purchasing simple licences to be entered directly on the front panel. 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 EqualinkTM linear and non-linear predistortion option on the modulator or modem.

Azimuth Key Features

- Exhaustive implementation of the DVB-S and DVB-S2 standards
- ABS-S compliant
- Highest bandwidth efficiency
- EqualinkTM linear and non-linear predistortion
- High speeds up to 55 Mbit/s/44.7 Mbaud
- Wide range of input and output interfaces
- Wide range of IF, L-band and RF interfaces
- Fully customizable redundancy solutions

Azimuth Applications

**BROADCAST**
- Modulation
  - Single and multiple carriers per channel
  - ASI and IP interface
  - Up to 155 Mbit/s

**Television**
- Single carrier
- Point-to-point
- ASI and IP interface
- Up to 155 Mbit/s

**Wan**
- Single carrier
- Point-to-point
- HSSI interface
- Up to 110 Mbit/s

**Applications**
- Direct-broadcast broadcast
- Broadcast contribution
- DSNG and interactive DSNG
- Primary broadcast distribution
- Point-to-Point links
- Backbone
- Cable redundancy and restoration
- Wide Area Networks
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Azimuth Key Advantages

Proven Performance

Newtec’s advanced implementation of the DVB modulation standards with the most aggressive performance. A proven feature such as Equalink™ pre-distortion and the implementation of advanced options of the DVB-S2 standard allows reaching performance levels far beyond 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 vast library 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 a leading provider of professional equipment for high-capacity, reliable satellite communications. Whether you need to boost your network’s capacity, reduce costs or improve overall performance, Newtec has the solution for you.
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Azimuth Key Advantages

Proven Performance

Newtec’s Azimuth is an optimum implementation of the DVB modulation standards with the best performance. A proven feature such as Equalink™ pre-distortion and the implementation of advanced options of the DVB-S2 standard ensure excellent performance for broadcast applications.

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