



# Telecommunications

Speed, reliability and passion

**albis**  
technologies

## Growing demand – increasing competition

### Customized products and services



Network operators face an ever more competitive market. Typically, their customers demand progressively higher and higher bandwidths and superior levels of customized support – all at a lower cost.

To meet this tough challenge, network operators must strive to reduce complexity. A primary focus in this context is the ability to bundle a maximum number of services and applications in one single network.

#### **Versatility is the key**

Albis Technologies is a powerful partner in this fast-moving market. The company supports the demand for higher network performance with a broad portfolio of versatile telecommunications products that meet stringent global technology standards.

## Global coverage

### Serving over 40 countries



Albis Technologies has gained many years of experience in the field of telecommunications network-access and has expanded its presence to all key markets in the world, covering both business and residential solutions.

Extensive, successful relationships with traditional and alternative providers on various continents testify to Albis Technologies' track record of experience and competence in the global telecommunications market.

Customized solutions are supported by local representatives backed by Albis Technologies' Research & Development centers in Switzerland and partner centers in Taiwan, as well as by partner manufacturing plants in Switzerland, Germany, Romania and China.

Albis Technologies focuses on customer satisfaction.

## Market segments

### Telecommunications


From access network solutions to home entertainment, customers can rely on Albis Technologies to deliver comprehensive and tailored products and services to meet evolving market requirements. Albis Technologies is a one-stop expert source for network operators and carriers.

Our solutions are cost effective for today's and tomorrow's applications.

High quality and reliability are key elements of our future-proof solutions. This is exemplified in our large international customer base.

Our Key Offering:

- Flexibility, Speed and Quality
- Extensive Network Know-How
- Skilled Engineering
- Consulting Services

**Access Solutions**

**Business services**

- Ethernet Services
- Virtual Private Networks


**Backhaul**

- LTE, 3G and 2G
- DSLAM

**Wholesale**

- Quality of Service
- Service Demarcation

- Carrier-grade Ethernet
- Fiber and Copper Access
- TDM to Packet Migration
- Network Synchronisation

**Digital Set-top Box**

**IPTV STB**

- Classic Services and Compact Housing
- Video Recorder

**Hybrid DVB STB**

- Complementing DVB & IP Services
- Dual DVB Tuner

**Features**

- Rich Media Support
- In-home Media Sharing

- Integration with third party applications
- Options for in-home and multimedia streaming
- Internal and external video recorder options

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## Access Solutions

### ULAF+ Universal Line Access Family



Efficient solutions to bridge the «first mile» and enhance access infrastructure are crucial to a carrier's effectiveness at delivering service excellence to business customers and for backhaul applications.

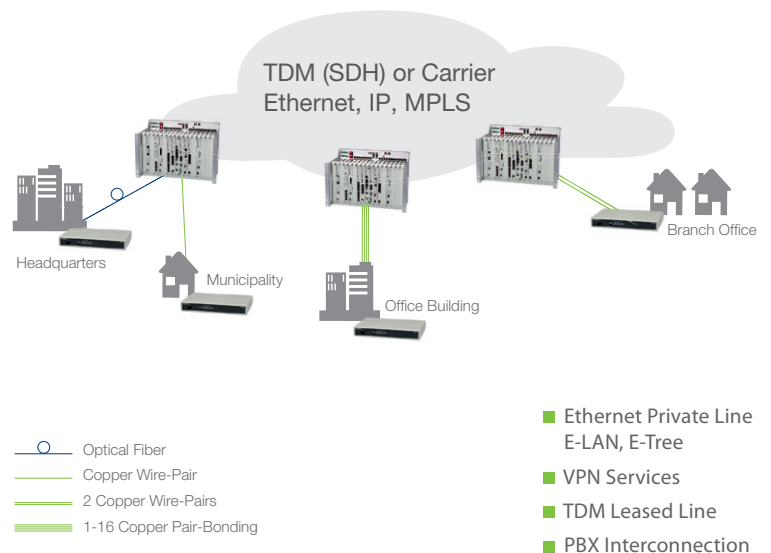
The ULAF+ platform accommodates fiber and copper based access technologies within the same system. Optical solutions allow future proof access network implementation with Gigabit data speeds. For fast roll-out and immediate return on invest carrier can capitalize their existing copper infrastructure with ULAF+ bonded-copper and multiple repeater solutions. With their high modularity and scalability, ULAF+ products meet the needs of various network environments, from small to large.

#### Dedicated access for leased line and infrastructure networks

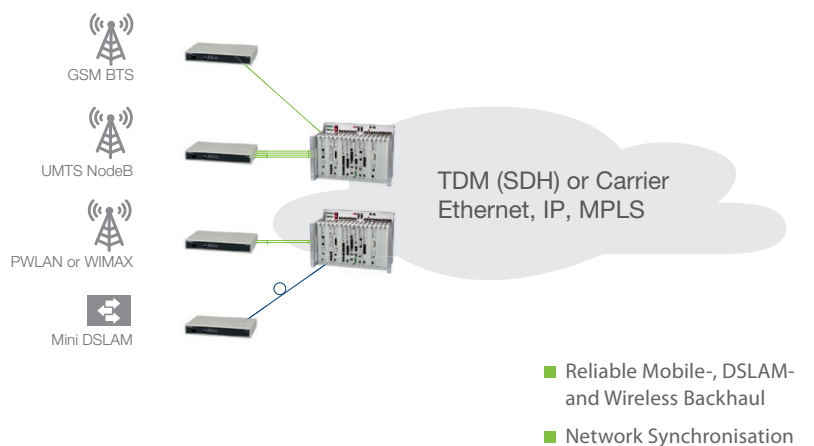
Field-proven, robust and reliable, ULAF+ equipment makes it possible to offer applications with quality and diversity that meet the business community's highest expectations. Albis Technologies provides the access platform for your most demanding business customers.

Albis Technologies' engineering teams in Switzerland are responsible for the design, production and service of the ULAF+ platform. They are ready to adapt ULAF+ to specific carrier environments, so helping to boost their customers' business today and expand it tomorrow.

#### Business Connectivity



#### Mobile- and DSLAM Backhaul



### Connecting everybody

- Carrier-grade Ethernet for multi-service access
- Metro Ethernet Forum (MEF) compliant access
- Flexible Ethernet First Mile (EFM) implementation

As a Metro Ethernet Forum (MEF)-compliant access platform, ULAF+ is enriched with a flexible Ethernet First Mile (EFM) implementation. This enhancement allows it to serve a broad range of challenging applications in the promising field of Carrier-grade Ethernet.

Native in fiber wire as well as in copper infrastructure, ULAF+ carries Ethernet and TDM services over the same physical link. ULAF+ supports any type of Ethernet-over-TDM and TDM-over-Ethernet applications.

High revenue time division multiplex (TDM) services, like leased lines or mobile base-station backhaul, are among the principal goals for this proven and reliable access platform.

With its MEF-compliant «circuit emulation service», ULAF+ makes an excellent solution for merging a TDM network into a packet-based backbone. That means ULAF+ easily integrates with any existing network, offering clear innovation and a substantial technology upgrade. ULAF+ is field-proven and has already been adopted by many major international telecommunication operators.



### Unique features of ULAF+:

- Fiber and copper access on same platform
- Carrier Grade Ethernet Switching functions
- Various options for network synchronisation
- TDM to Packet Migration
- Extended reach with best SHDSL performance & repeater support
- Intuitive network management tools



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## Digital Set-top Box

High definition by Albis Technologies



Albis Technologies is a pioneer in H.264 IPTV set-top box, plus has a strong foundation and deep knowledge in the end-to-end aspects of IPTV solutions. Together with a high performance chipset and high quality, Albis Technologies provides an attractive cost to performance ratio. Today the latest generation of STB is available and addresses enhanced requirements for over-the-top (OTT) content delivery and user experience expectation. In addition to IPTV STB, the hybrid DVB models enable new service offerings and interactive applications.

The Albis Technologies flexible software framework provides open APIs for integration with native or browser based middleware clients and applications.

### Philosophy and Strategy

- Stable and field proven software for quality services
  - Reliable Partner
- Maintaining one API guaranteeing backwards compatibility and migration to new hardware platforms
  - Securing today's and tomorrow's investments
- Focus on software performance on embedded systems and a robust hardware design
  - Satisfied customers and user acceptance
- Flexible and reactive to customer requirements
  - Differentiation
- Open for discussions
  - It's not just about «boxes»

For integration with today's internet media offerings, the software framework can be extended with a flexible media engine allowing de-multiplexing and decoding of the most popular container and codec format including flash video. In addition DLNA based media sharing is available for applications, to allow in-home streaming or multi-room concepts.

We work closely and partner with application vendors, to build sophisticated STB clients for standalone and interactive services. Albis Technologies supports partners and application vendors to develop and strengthen their applications. Together with our optimally performing hardware and strong partner support, our solutions address customer expectations.



A close-up, partial view of a tiger's face, showing its characteristic stripes and orange fur, set against a green background.

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