

ACTELIS NETWORKS

Best Scalable Network Equipment Provider – USA

Actelis Networks is the market leader and specialist in high performance, reliable and scalable network solutions leveraging broadband over copper.

With over 18 years of global experience turning copper into the strategic asset that gets more bandwidth to more places faster and more cost effectively than fiber, easier and more cost effectively than microwave, and with greater security and reliability than many wireless technologies.

Actelis Networks has conquered the limitation of copper by developing best in class Ethernet First Mile (EFM) over Copper transmission also known as EFMplus™ and broadband amplification technology. Leveraging existing copper networks is an ideal technological and economic solution because it's already there. An abundance of telephone grade copper wire was installed underground for telecom systems. These copper wires vary in terms of their capabilities and quality, but it is typically easier to repurpose this existing copper infrastructure rather than installing new infrastructure such as fiber.

Actelis EFMplus innovative set of patented algorithms overcomes the characteristic challenges of copper such as EMI (Electromagnetic Interference), crosstalk, and transients to make copper a highly reliable, high performance transmission media that scales Ethernet services into the 100s of Mbps and beyond.

Actelis Networks serve operators of fixed and mobile telecom, intelligent traffic, campus environments, industrial utilities, pipeline, rail, aviation and military networks.

Telecom operator solutions include cost optimizing DSL networks with DSLAM backhaul and DSL service enhancement, backhauling small cells and WiFi base stations, and providing Business Ethernet to small and medium businesses throughout the metro.

Intelligent traffic system solutions enable getting enough bandwidth more efficiently to connect the growing number of cameras, controllers, sensors, electronic signs and meters required in hard to reach places throughout the metro and long highways.

Campus solutions include surveillance camera and WiFi backhaul, as well as point to point Ethernet for school access or distribution of bandwidth from data centers to other facilities.

Industrial solutions satisfy applications such as utility substation meter connectivity and security, WiFi communications for work crews, pipeline surveillance, telemetering, airport signaling, runway electronic signage, surveillance, and a variety of military base applications.

Generating New Service Revenues & Expanding the Market

Actelis enables service operators to deliver more value to business and residential customers throughout the metro, selling them reliable, high performance bandwidth, maximizing quality of experience, achieving a faster time to market with a lower CapEx investment. Actelis enables reaching additional customers with higher speed access and triple play services. In the business markets, Actelis enables the introduction of competitive new retail and wholesale Ethernet access and Cloud services that are standards-based, MEF-certified, and feature best in class transmission technology.

Operators that leverage Actelis to upgrade small cell backhaul, gain the ability to offer better coverage, greater mobile data bandwidth, and more price-competitive in order to reduce churn and enjoy a net gain in subscribers. Providers of Business Ethernet services can reach small and medium business customers with competitive standards-based, dedicated Carrier Ethernet retail and wholesale services that support SLAs to combat competition.

Market Impact

By leveraging high performance Broadband over Copper solutions from Actelis Networks, network operators can turn copper into a strategic asset that significantly enhances the profitability of their operations, expands the size and nature of the addressable market opportunity and enables their strategy. Many of today's biggest growth opportunities for network operators require getting more bandwidth to more places more cost effectively than ever before.



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Actelis' market impact on residential broadband service providers:

- Transforms the business case for high speed residential broadband
- Fully leverages the installed base of DSLAMs and CPE while enhancing VDSL2 distance and bandwidth
- Accelerates the rollout of more efficient and profitable broadband services over combined copper and FTTH networks
- Supports delivery of premium triple play services with greater reach and bandwidth than standard DSL

Market impact on business Ethernet and Mobile Service Providers:

- Gets standards based 10, 20, Nx10 and up to 100s of Mbps of Ethernet services out to millions of SMB customers that cannot be reached cost effectively with fiber
- Simplifies getting Ethernet to SMBs by eliminating the need to rewire buildings, or get line of sight with microwave
- Enables 'bandwidth to the building' cost efficiencies using one Ethernet Access Device to serve multiple customers
- Enables new access revenues and bundling of value added Cloud services
- Enhances QoE for delivering mobile data services
- Provides backhaul for WiFi and 3G/4G small cell locations that cannot be reached cost effectively with fiber or wireless

Market impact on Industrial market in general:

- Enhance Surveillance to remote locations that are only connected by copper enabling faster transmission with low delay and jitter to support Video transmission
- Support multiple hop connectivity allowing efficient deployment along pipeline, power lines as well as railroad and highways for enhanced maintenance and real time control
- Reduces maintenance with rugged, hardened platforms for mission critical applications
- Ability to transport power and data over copper pairs to enable high speed connectivity along with PoE for applications off the grid

Based in Fremont, California with R&D offices in Tel Aviv, Actelis enables cost optimizing networks with the right mix of broadband over copper and fiber to transform the business case and enable more profitable build outs or enhancements of new or existing networks and services. This makes broadband over copper a flexible, reliable and cost efficient alternative or complement to fiber networks. Actelis Networks provides a seamless migration path to fiber when and where needed.

