



GLOBAL SUPPLIER OF
EFM OVER COPPER

INFONETICS
RESEARCH

No. **1**
2009
2010
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Company Profile

Who We Are

Actelis Networks specializes in high performance broadband over copper solutions that provide reliable Ethernet service and broadband access. Reaching locations more quickly, cost effectively, and easily using copper, the Actelis portfolio also complements and extends traffic off fiber networks. Founded in 1998 and based in Silicon Valley, Actelis has over 350 customers in 45 countries worldwide, and has been recognized as the leader in copper-based Ethernet Access Device.

Actelis technology includes G.SHDSL and VDSL-based EFM over copper solutions that use bonded copper to logically combine multiple twisted pairs to enable reliable, high performance, and cost effective transport of high speed Ethernet services. Actelis' VDSL and ADSL Broadband Amplifiers (the VBA and ABA) enable service operators to offer broadband customers more bandwidth and to reach more of those customers, using their installed base of DSLAM equipment regardless of vendor. Actelis also makes Industrial Ethernet switches that are environmental hardened, reliable, and designed to fit and mount into tight enclosures and vaults using DIN rails.

What We Do

Actelis' broadband over copper solutions are an enabler for telecom service providers, municipalities and state government, utilities, pipeline, and railways, and the network integrators that serve them. Actelis enables its customers to get more high performance, reliable and scalable broadband bandwidth to more location. Our technology enhances the ability of copper to make higher speed transmission possible. This allows service operators to build broadband more cost effectively, quickly, and easily using copper than they could with fiber, more easily than they could with microwave, and more reliably and over greater distances than they can with other wireless solutions.

Network Applications We Address

Actelis' solutions address network applications including MEF CE2.0 Carrier Ethernet services for Enterprise and government customers, backhauling IP traffic from Intelligent Traffic Systems (ITS) networks, surveillance cameras, and telemetering applications. We provide backhaul of WiFi, cellular, and DSLAM traffic, provide track-side communication for railway operators, sensors, positive train control systems, and cameras, and amplifying amplify VDSL and ADSL-based residential broadband services.

Our Portfolio

Actelis' broadband over copper portfolio includes a full suite of cost-optimized Ethernet First Mile (EFM) over copper CPE/ Ethernet Access Devices and aggregation switches, broadband amplifiers, and repeaters.

The Actelis Difference

Actelis provides standards-based broadband solutions augmented by strong technical innovation and unparalleled expertise in transmission over copper. Actelis' EFMplus™ suite of dynamic crosstalk mitigation technology, coordinated calibration, and other patented techniques overcome noise, the traditional constraint to high speed copper-based transmission. This and Actelis' intelligent line balancing technologies are the "gold standard" and industry benchmark for reliable, high speed transport over copper.

Actelis' outstanding Layer 1 transport supports more bandwidth to greater distances over copper, using fewer twisted pairs. This enables service operators and enterprise/government customers to reach more customers or locations with more bandwidth at a low cost whether they own or lease their copper, without the sizable CapEx investment of fiber, operational complexities of microwave, or scalability limitations of traditional N x T1 services.

A full suite of competitive Layer 2 features gives customers a very manageable solution with cost optimized OAM and the flexibility to create a variety of highly differentiated services.

Why Actelis

Actelis enables reaching more locations with high speed service more quickly and cost effectively. We enable Cloud Services and other applications to the majority of buildings where fiber has not been built in the past 30 years and is not cost justified. Actelis enables compliance with regulatory mandates for residential broadband services, allows service operators to sell more residential broadband to more customers. And we provide a lower cost way to build ITS, surveillance, and industrial networks.

Conclusion

Actelis makes copper what it should be: a strategic asset with the strongest business case for taking more high performance and reliable broadband bandwidth to more places.

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