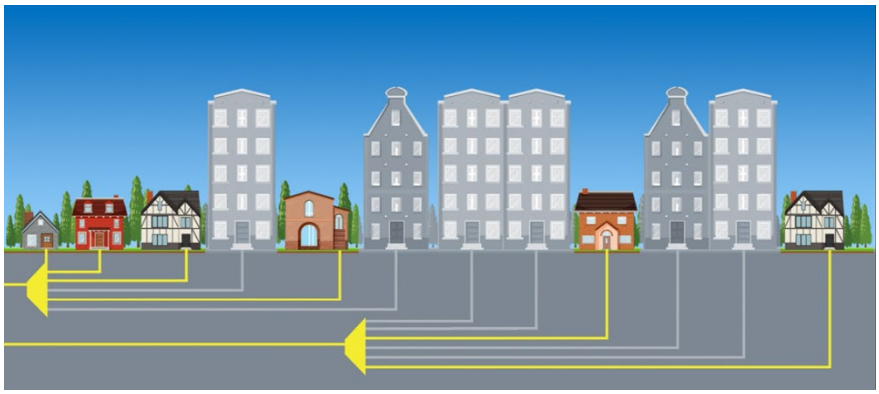
Boost Your ROI by Expanding your xPON Access Network with the Positron GAM

High Speed Broadband: A Crucial Necessity

High speed broadband access is essential for remote learning, remote work, video conferencing, and entertainment, especially when multiple users are in a household. To ensure a satisfactory user experience, it is crucial to have high speed bandwidth with fast upstream speeds, consistent peak performance, and high reliability. This is why the rapid deployment of fiber is so important. The more living units that can be connected to this fiber infrastructure, the greater the earning potential. Carriers strive to optimize the use of this infrastructure, minimize the cost of connecting homes, and do so as quickly as possible.

Closing the Gap: Avoiding the Fiber Divide

Expanding the fiber infrastructure to bridge the digital divide is a mission that will shape future generations. However, the inability to adequately serve existing buildings may result in the unintended consequence of a fiber divide, where a significant portion of the population is within reach of fiber connectivity but cannot be connected in a cost-effective manner. This situation limits the number of homes that can be served and hampers the achievable average revenue per user (ARPU).



Introducing the Positron G.hn Access Multiplexer (GAM): Extending Fiber Services Made Easy.

Say goodbye to the challenges of extending fiber services in older buildings. The GAM makes it possible to deliver Gigabit services to residents or tenants using existing telephone wiring or coaxial cabling.

Not only does this save time and money on construction, but it also effectively bridges the Fiber-Divide, connecting residential buildings, office buildings, hotels, and commercial clusters.

Considering that 33% of the U.S. population and 44% of Europe's population live in multi-dwelling units (MDUs), this presents a unique opportunity for a high Return on Investment (ROI).

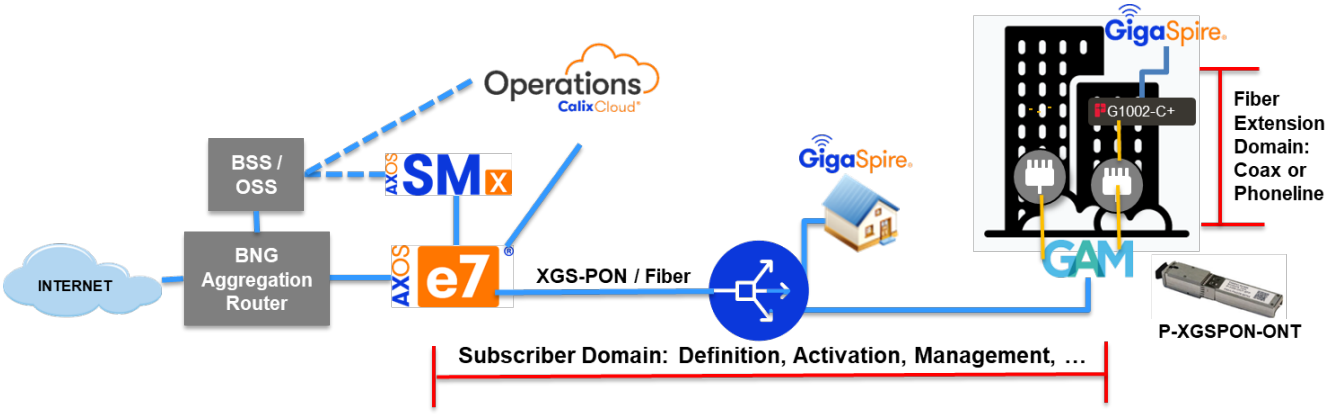
With the GAM, you can light up all fiber drops and instantly expand the number of homes served, eliminating the Fiber-Divide for good.

Extending Ethernet with Speed and Ease

Experience the power of G.hn, the ITU standard (G.9960) that effortlessly extends Ethernet over telephone pairs and coaxial cable, delivering lightning-fast Gigabit Ethernet over longer distances. And now, with the Positron GAM, you get the added benefit of native support for the ITU-T G.988 OMCI specification, allowing for seamless subscriber and services flow-through provisioning, just like XGS-PON.

Integration with Calix XGS-PON: Bringing Fiber Access to Legacy Buildings

Partnering closely with Calix, Positron makes it easy to extend the XGS-PON fiber access network to legacy buildings using G.hn. No need to make any changes to your IT backend systems (BSS and OSS) – the integration of G.hn and XGS-PON is transparently managed by the Calix SMx and E-Series OLT through the GAM's support for the OMCI management layer. Enjoy the benefits of a faster, more robust network without any hassle.



The Positron GAM: A Game-Changing Innovation for Fiber Service Extension

Now, service providers can expand fiber services within older buildings without the hassle of bringing fiber to each door. With the GAM, you can utilize the full symmetrical bandwidth of 10 Gbps of XGSPON to provide high-speed internet to subscribers as if they had a direct fiber connection. It is compatible with Calix GigaSpire residential gateways, E-series OLTs, and integrates easily with operator systems. By converting G.hn to Gigabit Ethernet, each G.hn endpoint acts as a virtual ONU, allowing for the same OSS and BSS to be used for G.hn and xPON fiber deployments.

Whether the fiber goes directly to the residential gateway or is extended through the GAM (converting xPON to G.hn, transmitting over telephone or coax, and then re-converting to Ethernet), the service remains the same. Plus, the ARPU for Gigabit service stays consistent.

Choose the Positron GAM for a revolutionary solution to extend fiber services efficiently and effectively.