The Bandwidth Challenge in Older Buildings

Older MDU's have been bypassed by service providers because the technologies in use cannot deliver high speed internet service over the existing in-building legacy wiring. The high cost of rewiring older buildings and the associated manpower needs and construction disruption in the building, makes them unprofitable to Broadband Service Providers (even if fiber or a fixed wireless uplink is nearby).

25% of US residents and 44% of European residents live in multi-dwelling buildings (MDUs), over 80% of which only have older wiring which cannot deliver high speed bandwidth without a very expensive upgrade.

Positron's GAM converts unprofitable older MDUs to highly profitable ones

Positron's Solution - Breakthrough Innovation

Positron's G.hn Access Multiplexer (GAM) enables service providers to deliver high speed bandwidth (up to symmetrical Gigabit internet speeds) over the existing in-building telephone wiring or coaxial cabling to each unit in older buildings. By extending fiber or a fixed wireless uplink to the GAM, it will deliver up to 1 Gigabit symmetrical services to each living unit in the building without rewiring.

The GAM makes it very economical to convert MDU 'homes passed' to 'homes served'.

Provide the same high-speed bandwidth and ARPU as new buildings at an installed saving of 75% versus the cost to re-wire

Positron's GAM eliminates the need to rewire the building for higher internet speeds which is costly, messy, disruptive and may need refinishing to repair damage created. The building can be upgraded in days with no disruption to occupants or damage inside the building. There are no concerns about ducting space, disturbing asbestos, walls or concrete.

The advanced technology of Positron's GAM makes it the most cost-effective solution available to upgrade older buildings enabling very high speed bandwidth. Older buildings can now offer the same broadband internet access amenity as new buildings, reducing churn (tenant moves) and increasing rents and property values.

The GAM is managed and operated as a multi-port ONT which also lowers operational expenses (OPEX).

Other Competitive Advantages

One Fiber or Fixed Wireless Feed Does it All

A fiber or fixed wireless uplink to a GAM will provide bandwidth for the entire building and all its appartments. There is no need to bring fiber or structured wiring to each door. Positron's GAM will deliver the high-speed bandwidth (up to 1 Gigabit symmetrical) into each living unit over the existing wiring.

Installs in Hours, No Rewiring Labor

The Positron GAM solutions install in hours and eliminates the significant manpower requirements and costs of rewiring. There is no lengthy deployment or construction disruption. The GAM enables the fastest time to service and increases revenues.

Cash Flow Positive from Day 1

Typically, the installed CAPEX is 75% less than rewiring and the return on investment (ROI) is 6 months.
The GAM installation generates positive cash flow from day 1 even if there is a low initial subscriber take rate. We will be pleased to demonstrate this by using your labor rates and building data in our cost calculator.

Future Proof

Positron's GAM enables the delivery of any bandwidth up to **1 Gigabit symmetrical bandwidth** to each subscriber. The existing legacy wiring can deliver up to 10 Gigabits over wiring when you are ready for it. An additional benefit is that the GAM converts the existing in-building wiring into a converged Gigabit Ethernet network.

This provides the backbone infrastructure needed for **managed Wi-Fi**, **smart building** and **smart home** applications including video monitoring, access control, alarms, HVAC control, smoke detectors and other sensors. This backbone is available to be used when the owner chooses to use it at no additional infrastructure cost.

Applications

Positron's GAM is in service in residential buildings (MDUs), office complexes (MTUs), home clusters, hotels, public facilities, shopping centers, hospitals, educational institutions, community and subsidized housing, and cutting-edge smart buildings.

GAM (G.hn Access Multiplexer)

The GAM is a carrier-grade award winning product in service with over 250 service providers including major U.S. carriers in thousands of buildings. Manufactured and supported in North America by Positron (established 1970).

It is available in indoor or outdoor units, telephone pair or coax models, powered locally or reverse power fed (RPF) and with POE options.

Free Consultations / Cost Estimates / Free Trials

Positron offers free consultations, cost estimates and free trials.

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