

Enhanced Whole-Home Coverage

COMTREND

G.hn Powerline brings connectivity to remote locations.

CASE STUDY



AT-A-GLANCE



Customer

Randolph Communications



Location

North Carolina, USA



Industry

Service Provider

Challenge

- Randolph Communications needed a faster & less costly method to solve the unique challenges of connectivity in rural communities.

Solution

- Comtrend's A/VDSL Bonded Gateway is the primary Access Point
- G.hn Powerline is used if more Wireless coverage or Ethernet connections are needed.

Gateway

NL-3120: A/VDSL Bonded

G.hn Powerline Adapters

- PG-9172: G.hn Adapter
- PG-9172AC: G.hn Adapter with a Wireless Access Point

BACKGROUND

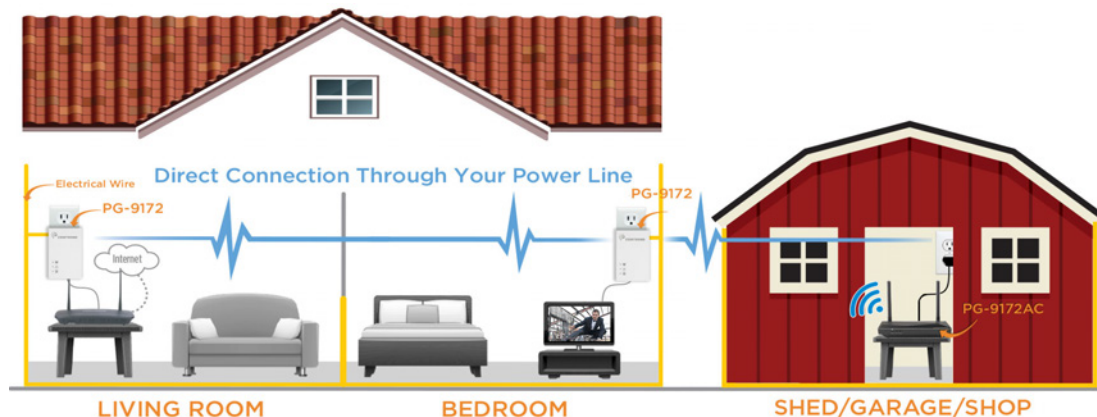
Randolph Communications was founded in 1954 and provides telecommunications services to eight different exchanges in seven different counties in the central, rural communities of North Carolina.

CHALLENGE | Expanding connectivity to hard-to-reach locations

Randolph Communications' previous solution required them to bury time-intensive and expensive Ethernet lines in order to extend connectivity to the remote locations typical in rural communities such as detached sheds, garages, workshops etc. This type of deployment was becoming increasingly commonplace as subscribers put more demands on WiFi as well as needed additional hard-wired connections.

SOLUTION | MyHome Wi-Fi Service using G.hn Powerline

Randolph Communications introduced their MyHOME Wi-Fi service as a way to solve common connectivity issues within the home. MyHOME Wi-Fi utilizes Comtrend's robust Gateway along with groundbreaking G.hn Powerline technology to easily extend WiFi and Ethernet connections to remote locations. G.hn Powerline uses existing electrical wiring as the wired-speed backbone to provide high-performance connectivity anywhere there is an outlet.





"Comtrend's Powerline adapters are a **huge benefit** to us, as they address our rural customers who have detached garages/shops and want WiFi coverage. We have seen a **significant reduction of time and cost** with these deployments that simply use Powerline to extend WiFi coverage."

Daniel Nicodemus | Engineering Manager
Randolph Communications



BENEFITS

- Improved Wireless experience with Comtrend's Gateway: dual-band technology to eliminate WiFi interference & proficient at handling multiple devices running simultaneously.
- Saved time and money by significantly reducing the need to run Ethernet cable.
- Added WiFi and Ethernet connections could now be **completed in minutes instead of hours.**

UNITS DEPLOYED



NL-3120
Bonded A/VDSL Gateway
Used as the primary Wireless in the home.



PG-9172
G.hn Powerline Adapter
Used as the primary G.hn Powerline Adapter that connects the Gateway to the home's electrical wiring. Additional units can be placed wherever more Ethernet connections are required.



PG-9172AC
G.hn Powerline Adapter with WiFi
Used as the secondary G.hn Powerline Adapter when additional WiFi coverage is needed.



MyHOME Wi-Fi

Wi-Fi is no longer an optional "EXTRA" for most homes. It has become a critical component of the connectivity. Just think about how many devices you are using in your home or business. Stop fighting with your wireless network and battling device connectivity. There are so many things that can interfere with your signal.

Our MyHome Wi-Fi is your answer to the challenges of connections in homes. We will provide you with optimum connectivity and reliability.

MyHome Wi-Fi SERVICES

MyHome Wi-Fi	\$4.99/mo*
MyHome Wi-Fi Plus	\$8.99/mo*
Purchase Price MyHome Wi-Fi	\$156.80/ea
Purchase Price MyHome Wi-Fi Plus	\$299.60/ea

*Based on structure of home. MyHome Wi-Fi will cover up to 2000 sq. ft. MyHome Wi-Fi Plus will cover 2000 sq. ft. and up.



BENEFITS OF MYHOMEWi-Fi:

Less Wi-Fi interference's:

Wi-Fi interferences can cause slower performance from your Wi-Fi network. Our modems are multi band to eliminate Wi-Fi interferences.

Best for Gaming & Streaming:

These modems are built to handle higher bandwidths which are great for gaming and streaming.

Long Range Capability:

Do you have a outbuilding or a shop that would like Wi-Fi or a harwired connection (or both), then as long as the power to outbuilding is fed from the home meter base we can plug in a Powerline Adapter and you will get access to your Wi-Fi connection.

Multiple Devices:

Our MyHome Wi-Fi can support multiple Wi-Fi devices at the same time.

CONCLUSION

Randolph Communications now uses Comtrend's Gateway for enhanced WiFi performance within the home. When subscribers would like added WiFi coverage in hard-to-reach locations or more hard-wired connections, G.hn Powerline is deployed.

- Customers experience less WiFi interference resulting in a reduction of support calls and truck rolls.
- Long-range coverage can now be achieved easily.