

**Frequently  
Asked  
Questions**

### **Do I need to purchase a new router to enjoy Allied Telesis Multi-Gig Service?**

You may prefer to if you like to own your own equipment, but this new generation of hardware is expensive. If not, Allied Telesis plans to offer equipment rental at reasonable prices until next generation router equipment becomes more affordable.



### **Can I use a standard RJ45 connector and cable to connect the cable to my equipment?**

Yes. You don't need to purchase expensive cables.



### **My Router claims to offer speeds up to 6.8 Gbps, but the port Multi-Gig speeds supported are 2.5 Gbps or 5 Gbps. How are they related?**

802.11ac and 802.11ax speeds are the Radio Frequency speeds. When this is translated into the Access Point-switch bandwidth, this speed is reduced by a factor. That results in the 2.5 Gbps and 5 Gbps speeds on the Multi-Gig switch ports.



### **How will my Multi-Gig compatible router auto-negotiate the link speed with Allied Telesis Service?**

If your router is Multi-Gig capable, both Multi-Gig ports will auto-negotiate the highest speed they can support over the cable and distance.



### **What happens when I connect a device that isn't Multi-Gig capable to Allied Telesis Multi-Gig Service?**

Your equipment will operate at the highest speed enabled by your system. Allied Telesis Multi-Gig service can support speeds ranging from 100 Mbps to 10 Gbps. The Multi-Gig port will auto-negotiate with the customer's device to the fastest speed supported by both devices. For example, if the far-end device is only capable of 1 Gbps, the two devices would connect at 1 Gbps speeds.



### **Will Allied Telesis have to install anything in my unit?**

Since distance is a factor, those customers that live at the far end of the building that also have 10 Gbps compatible equipment may need to have an upgrade to the facility wiring to fully realize the 10Gbps connection speeds.



# 2.5Gb/5Gb/10Gb

Multi-Gig

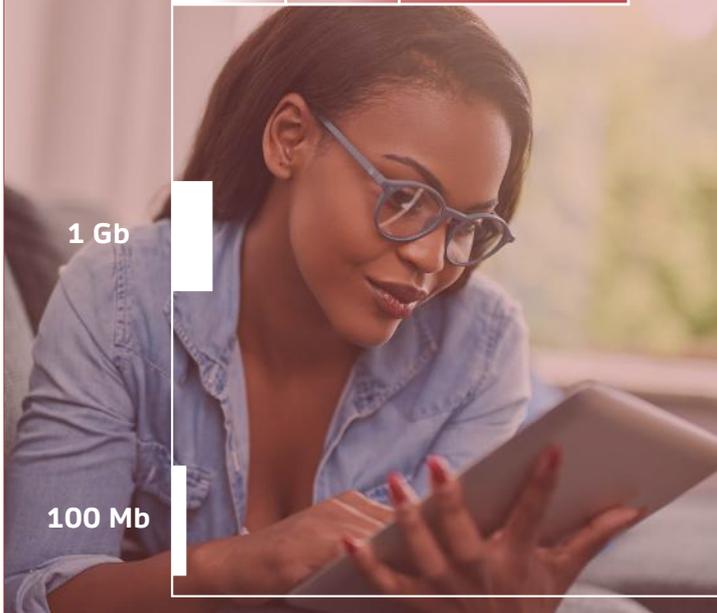
2.5 Gb

5 Gb

10 Gb

1 Gb

100 Mb



## What Is Multi-Gig?

These are new much faster speed data packages designed to meet the demand for even faster Internet speeds. Allied Telesis is the first Internet Service Provider (ISP) to deploy this emerging technology which enable speeds beyond 1 Gbps – all the way up to an incredible 10 Gbps Internet experience.

## What is all the hype?

Previously, service providers sold internet service packages in limited data rate increments that generally were less than the capability of the Customer's equipment. A customer might have a 100Mbps router but be limited by a 20Mbps DSL internet package. The limit with Allied Telesis Multi-Gig service rests with the customer's own equipment.

## What are the data rates and speeds supported with Allied Telesis Multi-Gig service?

Multi-Gig supports 100 Mbps, 1 Gbps, 2.5 Gbps, 5 Gbps, and 10 Gbps speeds.

## Why would I be interested in Allied Telesis Multi-Gig Service?

Standards are constantly evolving, and these new standards will one day be the norm. But you can get faster speeds today with Allied Telesis Multi-Gig Service. Widespread adoption of advanced wireless applications and devices are driving the need for more network bandwidth. As the industry moves to **Wi-Fi 6**, access points are requiring more wireless bandwidth than 1 Gbps. Service providers are struggling to keep up. Not Allied Telesis. We anticipated the shift in bandwidth requirements. During 2019 and the beginning of 2020, we upgraded the networks on all bases we serve to become the industry's leading technology service provider.

## Router Compatibility

Some routers are equipped with 1Gb, 2.5Gb, 5Gb, or 10Gb Ports. Make sure yours has the performance level you expect



Asus  
GT-AX11000

2.5Gb  
WAN  
Port



Netgear  
Nighthawk  
AX12

5Gb  
WAN  
Port35



Buffalo  
WXR-5950  
AX12

10Gb  
WAN  
Port

## What should I be looking for in a Next Generation Router to get the best performance with my Allied Telesis Multi-Gig Service?

Several Router manufacturers now offer routers that are Multi-Gig compatible. Look for Multi-Gig 2.5 Gbps to get 2.5 times faster than 1 Gbps service or Multi-Gig 5 Gbps to get 5 times faster service than 1 Gbps.