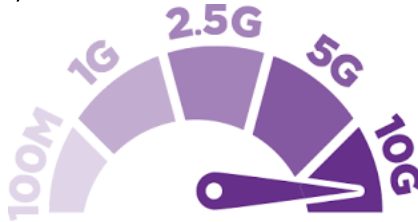


Multi-Gig Ethernet refers to an Ethernet link which delivers connection speeds faster than a Gigabit. More specifically, Multi-Gig Ethernet usually mean plugging into a RJ45 Ethernet network port that can support speeds between 1 Gbps to 10 Gbps (and are backwards compatible to lower Ethernet port speeds including 10Mbps/100Mbps).



In 2016, the NBASE-T 802.3bz standard was released, bringing the concept of Multi-Gig Ethernet. Prior to that, 10G Ethernet networks could only be set up over Cat6a cables. Cat5e cables could only run 1 Gigabit networks. And the previous 1 Gigabit and 10-Gigabit Ethernet ports, many of which were 10GBASE-T switches, did not support intermediate speeds.

The new 802.3bz standard, which is also called 2.5GBASE-T and 5GBASE-T, allows you to run 2.5G, 5G, and possibly 10G over existing Cat5e and Cat6 cabling. This allowed for a time-consuming and cost-saving alternative to re-wiring with Cat6a for a faster network. In addition, Multi-Gig Ethernet ports were backwards compatible & flexible, able to support lower speeds. For example, a 2.5G Multi-Gig port can support all of the following connection speeds: 10 Mbps, 100 Mbps, 1 Gbps, and 2.5 Gbps.



Many vendors of computers, IoT devices, and game consoles, and home entertainment systems have upgraded their equipment to support Multi-Gig Ethernet. Optico Fiber's MultiGigabit services support these faster connections, and are prepared for the Next Generation of interconnectivity.

Do I need a MultiGig Connection?

For some, a single Gigabit Ethernet connection is sufficient for daily use within their home network. But here are a few reasons why some might choose a faster, MultiGig connection:

- Bigger family where numerous devices must share a single connection.
- Individuals which do a large amount of time-sensitive online financial transactions. ie. Quick buying and selling of commodities.
- Working and/or studying remotely. If you are using VPNs, there is a need to make sure your connection is never interrupted by others in the home/
- Downloads of software upgrades and gamers will see a huge benefit from multi-gigabit speeds.

- If you use applications that consume large amount of bandwidth, or if the application's needs could suffer due to lag.

How to Build a Multi-Gig Ethernet Network at your home

Step 1: Select one of the OpticoFiber MultiGig XGS broadband plans.

Step 2: Prepare suitable Ethernet cables which connect everything. Lightning-fast Optico Fiber MultiGig services require the right Ethernet cables be installed at your residence. This is vital to ensuring your service functions optimally. In choosing the proper cables for the different OpticoFiber XGS broadband speeds. You should follow the following table.

Type of ethernet cable	Maximum Speed at 300ft
CAT5	1 Gbps
CAT5e	2.5 Gbps
CAT6, CAT6A, CAT7 or CAT7A	10 Gbps
Note: All are backward compatible, so you can use a CAT6 to connect a device at 100Mbps.	

Easy way to tell the difference between a Cat5e and Cat6 Patch Cable



Step 3: Decide the requirement of each of your devices. Not all devices need to be connected at Multi-Gig. For example, an Amazon Alexa will work perfectly fine with 100Mbps, while many game consoles will benefit from a higher speeds.

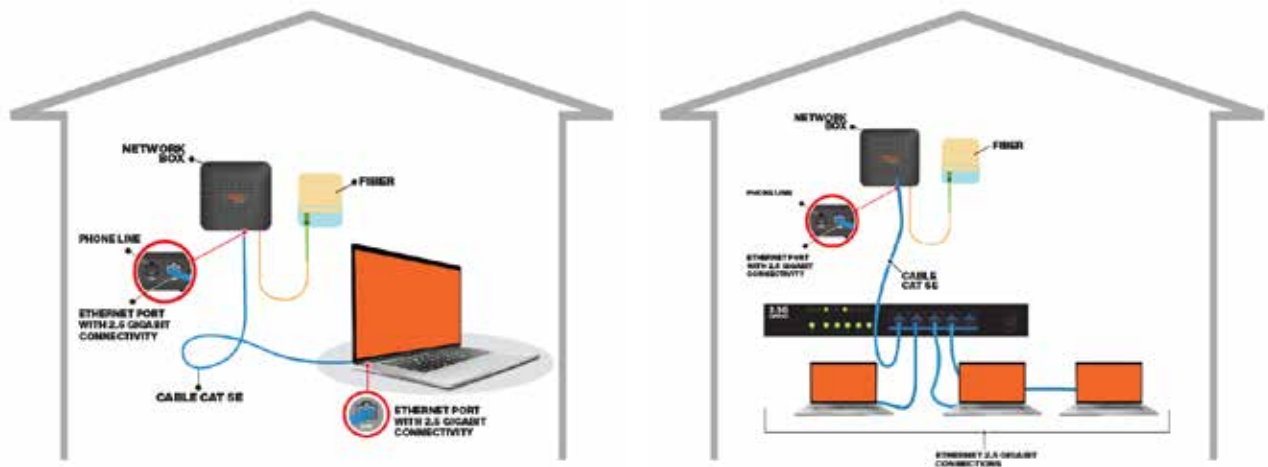
Step 4: Do you need a switch? A switch is the device that can split your Multi-Gig Optico Fiber XGS broadband service to many devices in your home. If you need more Ethernet ports than are available on your Network Box, you may need one. Multi-Gig Switch can be purchased from online stores or from Optico Fiber.

Step 5: Upgrade your computers & devices to be able to connect to MultiGig speeds. So let's say you are buying OpticoFiber XGS broadband services to connect your MacBook Pro 16" computer. You need to ensure that your computer can take advantage of these higher speeds. Many laptops have USB-C ports. You can buy a USB-C "dongle" from an online retailer that can connect your computer to 2.5 Gbps

or 10 Gbps Ports. Some high-end computers may have built-in Multi-Gig Ethernet ports.



Here are some examples of how to connect it all in your home:



Para más información
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