

THE NetworkGuy

DECEMBER 2025 \ VOLUME 6 \ ISSUE 12

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Learn from The Network Guy

Why do I need a router for Internet service?

The Network Guy:

A router is a device that connects multiple networks and sends network traffic between them. It acts as a dispatcher and directs information to the correct destination, such as your computer, smartphone, television, or other connected device. A router also provides network security features and allows you to set up wireless WiFi networks.

HAPPY BIRTHDAY, UNITED STATES OF AMERICA!

We'll Soon Be Celebrating the 250th Anniversary of the United States. Imagine life before the Internet. Now imagine if there were no United States of America. It seems almost impossible, right? PenTeleData celebrated our 30th anniversary last year, and we were all proud to be part of that monumental feat. Soon our entire country will be celebrating something even bigger: 250 years of independence!

We're proud to celebrate our country and have designed a celebration logo to use in our marketing materials. We are also planning special ads and contests, so be sure to keep an eye out for all things PenTeleData in 2026!



The Network Guy Quiz Challenge

PenTeleData is giving one lucky winner a \$150 Amazon Gift Card. Just visit www.ptd.net/quiz-challenge by **December 31, 2025** to answer the contest question. We will select a winner at random from all correct entries. **Good Luck!**

Click the Quiz Challenge link and select the which choice is NOT true about a wireless router.



Things That Make You Go Hmmm...

Your toaster might be smarter than you know. Modern smart kitchen gadgets use AI to learn your routine. Some smart toasters now adjust to your bread type, browning level, and even track your nutritional goals.

Quantum Internet is no longer Sci-Fi. China and the US are racing toward practical quantum Internet. Instead of traditional data packets, this uses entangled particles, making hacking nearly impossible.

Your voice is your new passport. Biometric security is evolving. In many banks and apps, your voiceprint is already more secure than your fingerprint. It's used to authorize high-risk actions like wire transfers and crypto access.

AI can now dream, literally. Some experimental AIs are trained using dream simulation models, mimicking sleep cycles to boost learning. It's bizarre, but it helps neural networks become more adaptive.

Haptic suits let you feel the Metaverse. VR is more than visuals now. Haptic suits allow you to feel pressure, temperature, and touch inside virtual environments. Gaming, fitness, and even remote intimacy are entering a new era.

3D bioprinting has progressed fast. Researchers can now print functioning mini-organs like livers and kidneys for lab testing. Within a decade, full organ replacement may become routine.

(Source: https://buddybluetooth.com/blogs/news/2025-facts?srltid=AfmBOop2Nx9s8GJGugT-GUmePLd_exLFmYmVQW_tRi7vgEI_oTSI4rcDn)

*"It's not about how much we lost. It's about how much we have left."
~ Tony Stark in Avengers: Endgame*

PenTeleData is Proud to Port Carbon, PA

Port Carbon, Pennsylvania is a small town with a big history. Founded in the early 1800s and incorporated as a borough in 1852, Port Carbon grew quickly from a few sparse settlements to a thriving market town of nearly 2,000 inhabitants by 1860.

The early history of Port Carbon is veiled in obscurity, but a more definitive account of the first 50 years of the settlement is written by Barbara Bensinger Welch, a Port Carbon native. Tradition declared that the greater part of the site of the town was a vast swamp, fringed with a heavy growth of timber before 1800. This seems to be borne out by the fact that during the 1890s – 1910s, while excavating certain streets for laying water and other pipes, heavy logs, the remains of one-time corduroy roads, were encountered. With the Schuylkill River and Mill Creek flowing through the borough and with innumerable springs on every side, this swamp notion seems very practicable.

The founding of what is now Port Carbon is most credited to Abraham Pott, the son of John Pott for whom the City of Pottsville is named. Early historians note though that William Morris and Ludwig Stitzel were two of the earliest settlers of the community before Pott acquired a large section of the area from his father. The early settlers of the town recognized the value of two primary aspects of the town's location. Inspired by the fact that it was situated near rich anthracite coal deposits and that a navigable stream was formed at this site, the founders easily applied an appropriate name to this pre-boom town community. As a shipping point for anthracite coal, which in chemical composition is almost pure carbon, Port Carbon was a logical name. Other histories note that Middleport and Carbondown were two early names for the town, yet it was Port Carbon that has stood for more than 170 years. As the first lock on the Schuylkill Canal, Port Carbon was a transportation link that carried anthracite coal to market in Philadelphia. The canal and the coalmines offered plenty of work, especially for the thousands of western European immigrants who flocked to Schuylkill County seeking a better life.

Today, Port Carbon's borough website describes that the town "blends rich industrial heritage with the charm of tight-knit community living." The close community has several locally owned businesses but is also located just a few miles from Pottsville for additional resources, shopping, and dining options.

TECH CHRISTMAS GIFT IDEA

ARE YOU LOOKING FOR A GIFT FOR THE PERSON WHO HAS EVERYTHING?

Here's an idea: a magnetized phone holder and MagSafe phone case. Of course, you'll need to know their phone make and model. The latest iPhones use an array of built-in magnets that allow compatible accessories to seamlessly snap onto the back. Apple's official MagSafe charger recharges an iPhone twice as fast as competing wireless chargers. Android phones are a bit different. Still, they can use a MagSafe-compatible case with a built-in magnetic ring. Although it may be slower because they don't have the internal magnet for perfect alignment, it still allows charging capabilities. In addition, the magnets serve as a perfect solution to use with a phone holder in the car, for a desktop setup, in a garage or workshop, or anywhere that benefits from a secure method to keep the phone in place.

Tech Myth Buster

MYTH:

Charging your cell phone overnight damages the battery.

FACT:

Modern phones have smart charging systems that stop charging at 100%, preventing overcharge damage.