

A newsletter from your friends at RC Technologies

THE COMMUNICATOR



Vol. 24 No. 9 September 2026
605-637-5211 | www.tnics.com



FIBER IS THE BEST VALUE

Fiber Internet Outperforms Other Technologies In Delivering Internet

With all the advertisements from various internet providers claiming to deliver the better value for high speed internet, it can be confusing to determine the best internet for your home or business and your wallet. When you research which internet technology is the best value, the choice is pretty clear: Fiber Internet.

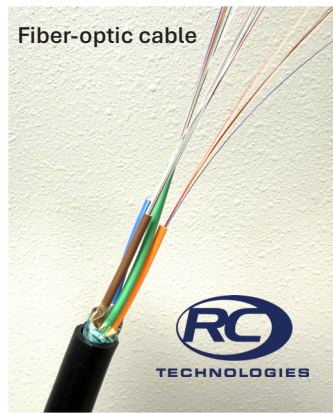
You'll find several factors that determine this. We'll cover four main categories that fiber internet and other internet technologies are matched up against: Reliability, Speed, Latency, and Overall Performance (Your Experience).

RELIABILITY: FIBER IS THE MOST RELIABLE BY ITS VERY DESIGN

Fiber optic technology is renowned for its reliability and efficiency in data transmission. It owes much of its performance to the unique construction of its cables.

Fiber-optic cable is a flexible cord with a core composed of hair-thin strands of glass through which light signals are transmitted. The core is encased in a layer called the cladding, which reflects light back into the core, minimizing signal loss and allowing data to travel long distances almost instantaneously with the most uptime.

The precise engineering of fiber cable enables transmission of data at the speed of light from your devices throughout fiber-optic lines.



Not only is fiber's unique construction superior, so is the way fiber is deployed: underground. Fiber directly connects each location and transmits the data through a network, much like an underground root system, or set of veins.

This very network transmits images, videos, and other data you back and forth on devices from underground network free from any physical obstructions from tall buildings or other structures

(many metal), large equipment and vehicles, trees, foliage, mounds of rock, which all can cause obstruction or interference issues for wireless and satellite internet which rely heavily on *line of sight* and GPS coordinates. External obstructions can cause uncontrollable challenges in alignment and users' connectivity.

Weather-related occurrences such as humidity, hail, sleet, snow, ice, wind, as well as space weather and solar events, are factors that affect wireless and satellite internet service. Fiber internet is largely immune to these disturbances.

SPEED: CAPACITY, ULTRA FAST, & SCALABLE

The primary advantage of fiber is its speed. A single fiber strand has great capacity for top speeds, from Megabytes to Gigabytes to Terabytes (RC's not there yet) and beyond. This capacity allows fiber to handle a tremendous amount of data traffic of all kinds (images, videos, emails, files, etc.) from everywhere at the highest level of efficiency (speed of light and lowest latency), far exceeding satellite, mobile, and wireless networks.

Fiber internet can also offer symmetrical speeds (which you have with RC Internet), meaning upload speeds are just as fast as download speeds. This is ideal for video conferencing, cloud backups, file sharing, and more. Without it, file uploads take much longer and create bottlenecks to remote collaboration. For individuals, it means a better experience for live streaming, sharing content, and uploading photos, videos, and documents.

LATENCY (DELAY): THE LOWEST OF ALL DATA TRANSMISSIONS

Latency is a term used to describe how long it takes for a signal to travel to a destination and back. Fiber internet has the lowest latency (delay) at a range of approximately 2 to 20 milliseconds (ms), 5G Internet is approximately 10 to 30 milliseconds, and Low Earth Orbit Satellite internet (Starlink) has a higher latency (delay) of approximately 20 - 50 milliseconds.

Fiber's low latency along with its ultra fast speed makes streaming video and the use of other apps (applications) run smoothly, allowing user to be more productive, less frustrated, and have a more more enjoyable experience.

PERFORMANCE: BEST FOR ENTERTAINMENT

With fiber internet reliability of high capacity enable easy handling of high-definition 4K and 8K streaming. As streaming content is delivered at higher resolutions, the bandwidth (capacity) requirements for a smooth streaming experience will also increase. Fiber Internet has been future-ready from the start, ensuring availability, without compromising speed or causing buffering or interruptions.

PERFORMANCE: THE ABILITY TO HANDLE MULTIPLE DEVICES

Fiber Internet excels at handling multiple devices simultaneously due to its high bandwidth and consistent speeds throughout the home (or business). Whether you are streaming video, attending virtual meeting, gaming online, or using smart home devices, fiber can support these activities without noticeable slowdowns.

Fiber ensures real-time performance while using multiple devices even during peak usage. Unlike other internet technologies, fiber maintains reliable speeds even when several devices are connected all at once. Fiber's ability to support multi-device connectivity, all comes back to the unique construction of its cable.

Reliability, capacity and scalability of speed, low latency, and overall performance make fiber internet the best value and a preferred delivery method of internet and Wi-Fi connectivity. Fiber-To-The-Home (FTTH) has become a dominant fixed broadband technology in many countries and considered a gold standard for broadband infrastructure because of its ability to deliver significantly higher bandwidth, great reliability, and long-term scalability.

Sources:

IEEE.org ibm.com/think/topics/latency spaceweather.gov/impacts/ cnet.com
USTelecom.org tmforum.org spaceweather.gov/impacts/
<https://www.thefoa.org/Timeline/Fiber%20optic%20history%20timeline.html>

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* Primary Fiber Internet connection required

Beware of Fake Virus Warnings

If a message suddenly appears on your computer or any device (with, or without, a scary sound or graphic) claiming that your device is infected and instructing you to call a phone number immediately, **do not call the number.**



These pop-up messages are often scams designed to frighten users into giving criminals remote access to their computer or paying for unnecessary services.

REMEMBER:

- Microsoft, Apple, and legitimate IT departments do not display pop-ups demanding that you call a phone number.
- Never provide payment information or allow unknown individuals remote access to your computer.
- If you receive a suspicious warning message, close your browser or restart your computer.
- If you are unsure whether a message is legitimate, contact RC Technologies directly.

**When in doubt, call RC Technologies
not the number on the screen.**

Calling All RC Technologies Patron Photographers



The 2027/2028 Directory Cover Photo Contest starts NOW!

Your chance to win \$100.00 credit on your bill, receive a photo gift of your image, and 2027 Directory Cover bragging rights.

Here are the Contest Rules & Photo Submissions Eligibility:

- ✓ You must be an Active RC Technologies Cooperative patron and photo/images need to be from RC Technologies service area.
- ✓ This Year's Theme: **Animal(s) or Nature**
- ✓ Photos/images **MUST** be Portrait (TALL)
- ✓ Email images to:

marketing@rctechteam.com

-or- mail your photos to:

RC Technologies
c/o Directory Contest
PO Box 197
New Effington, SD 57255

- ✓ You can submit up to 5 photos.

Deadline for images is November 13, 2026