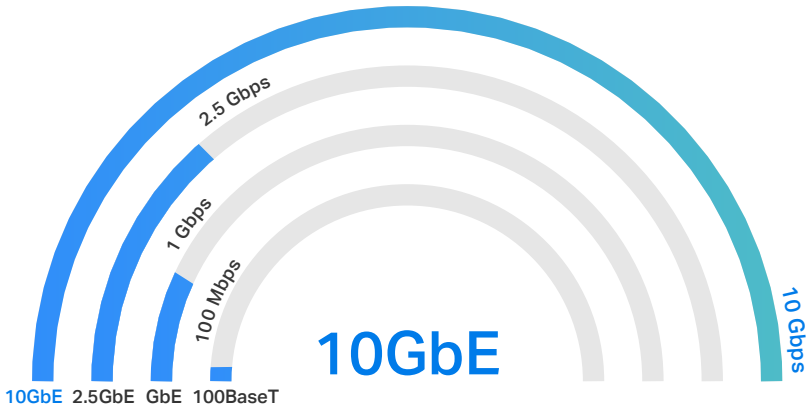
10GbE

Ultra-Fast Wire Backbone for Modern Family

What is 10GbE?

10GbE, short for 10 Gigabit Ethernet, refers to an ultra-fast wired network that transmits data frames at a rate of 10 billion bits per second.

During the last decade, we have had advanced laptops and drives that transfer files at 10 Gbps. However, we are still sticking to the 1 Gbps or 100 Mbps wired solutions, which causes people to feel like there's a barricade between devices. When transferring between devices quickly reach the limits of a network, 10GbE is the answer.

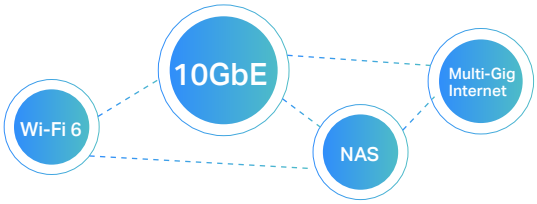


10× Speed Saves 90% Time

10GbE transfers data with ultra-fast speed, which is 10× wider bandwidth than GbE. Transferring a 20 GB movie now costs 90% less time to complete.

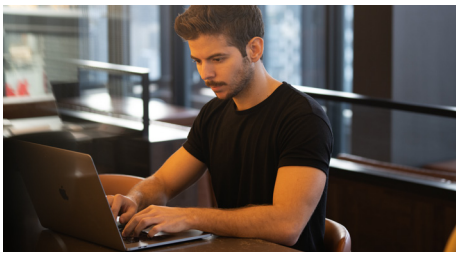
Unleash the Power of Your Network

10GbE is so fast that it surpasses the bandwidth of WiFi 6, NAS, and multi-Gig internet access. 10GbE acts as an ultra-fast backbone to connect peripherals and boost your entire network performance.



10GbE Boosts Daily Productivity

10GbE provides more than enough bandwidth for multi-gig internet access, enabling you to finish all downloads and uploads quicker. Within a small-scaled network, 10GbE brings all clients closer. Store your movies and music super-fast; open a huge design file in seconds and collaborate easily with your partner; or back up your computer in minutes through the network without relying on a USB stick. 10GbE shortens wait time by 90%, boosting daily productivity drastically.



Multi-Gig Internet Access

Instant Editing over Ethernet

Improving NAS Performance

Set Up Your 10 Gbps Network

To build a 10 Gbps network, you need a 10G-capable network gateway, clients, and cables.

Network Gateway
10G WiFi routers enable you to connect both wired and wireless devices to the 10 Gbps network, while 10GbE switches provide a high-value solution for wired 10 Gbps connections.*

Clients
Connect to 10GbE using the 10GbE RJ45/SFP+ ports on your devices, or equip your devices with 10GbE network adapters to add the capabilities.

Cables
Use cables that support 10 Gbps speed—OM3 or higher optical fiber and CAT6 or higher UTP cable. Optical fiber provides relatively better range performance while UTP cable matches most existing clients.

10GbE Network Hubs

AX11000 Tri-Band 10G WiFi 6E Router
Archer AX206

Premium Wired Connectivity
1× 10GbE WAN/LAN SFP+ port, 1× 10GbE WAN/LAN ports, 1× 2.5GbE WAN/LAN port, and 4× Gigabit LAN ports for premium connectivity

Unrivaled Processing Power
Equipped with a 2 GHz Quad-Core CPU to handle huge throughput and eradicate latency

Fastest WiFi up to 10 Gbps
4804 Mbps (6 GHz) + 4804 Mbps (5 GHz) + 1148 Mbps (2.4 GHz)

Seamless Expansion
TP-Link OneMesh enables transferring between signals without drops or lag

Pure 6 GHz Band Dedicated for WiFi 6E
Expand your connections to a clearer, broader 6 GHz band for unstoppable transmissions

HomeShield Security
TP-Link HomeShield for your network and IoT protection

5-Port 10G Desktop Switch
TL-SX105

5× 10GbE Ports
Full 10GbE ports with auto-negotiation for 100M/1G/2.5G/5G/10G connections

Silent Operation
The fanless design ensures silent operation, ideal for on-desktop usage

8-Port 10G Desktop/Rackmount Switch
TL-SX1008

8× 10GbE Ports
Full 10GbE ports with auto-negotiation for 100M/1G/2.5G/5G/10G connections

Low-Noise Operation
Intelligent fan speed adjustment ensures minimal noise to be non-distracting when in use

10GbE Network Adapters

10 Gigabit PCI Express Network Adapter
Archer TX401

1× 10GbE Port
A 10GbE port with auto-negotiation for 100M/1G/2.5G/10G connections

Comprehensive System Support
Windows 10/8.1/8/7, Windows Servers 2019/2016/2012 R2, Linux

Scan to learn more about 10GbE

* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and the number of connected devices are not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

** Archer AX206 is in development and design sketches are for reference only.

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