Internet speed reached a record of 301Tb/s

Recently, researchers recorded a fiber optic cable with a data transmission speed of 301 Tb/s, 4.5 million times higher than the current one.

Specifically: in a recently published study by researchers at Aston University (UK), Internet speed reached 4.5 million times faster than the average broadband level.

This is the research result of a collaborative team from the Aston AIPT Institute of Photonics Technology, Japan's National Institute of Information and Technology (NICT) and the US Nokia Bell Laboratory.

The group uses optical fibers (tiny tubular glass fibers) that can transmit information using light and reach speeds that copper cables cannot meet. Besides, it opens up new wavelengths that have not been used in current fiber optic cable systems. Different wavelength ranges correspond to different colors of light transmitted down the fiber.

Combined with that is the opening of new wavelengths that have never been used in current fiber optic cable systems. Different wavelength ranges correspond to different colors of light transmitted down the fiber.

As a result, the research team achieved a speed of 301 Tb/s (equivalent to downloading 9000 HD movies in 1 second) with just 1 fiber optic cable. This is the fastest Internet speed ever recorded.

According to Ofcom's September 2023 report, global home broadband networks reached an average speed of 69.4 Mbps. Thus, the new record exceeds this number by 4.5 million times.

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