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STARLINK IN THE MODERN WORLD

The purpose of this work was to explore the current use of Starlink technology in Ukraine.

Starlink is a project of the American company SpaceX to develop a high-performance satellite platform for manufacturing communication satellites and launching a large number of them into space. The system provides access to broadband Internet anywhere in the world.

The satellites for this project, thanks to the platform, are mass-produced and therefore cost significantly less than similar ones released in a single version. They belong to the small class and weigh about 260 kg.

As our country is currently in a difficult situation, the relevance of satellite communications is growing.

The system consists of satellites orbiting the Earth and an earth station that manages this network. When a user connected to Starlink equipment wants to access the Internet, his or her computer sends a request to the earth station via an antenna that is directed to the nearest satellite.

The satellite collects the request and transmits it to the earth station, which forwards the request to the ISP. After that, the ISP sends a response to the request that goes in the opposite direction, from the earth station to the satellite and then to the user's antenna.

The user can access and use the Internet on their computer as usual.

Thus, Starlink provides access to the Internet from anywhere on Earth, enabling people living far from civilization or in hard-to-reach areas to be connected and have access to digital technologies.

The main advantage of Starlink is its high connection speed. It can provide Internet speeds of up to 200 Mbps, which is higher than most conventional Internet providers.

Starlink is a simple system to install. It can be easily installed on any open area, which makes it possible to quickly connect to the Internet.

Starlink is configured using a special application.

The disadvantage in setting it up may be the need to connect to a large computer network. For example, such difficulties may arise when installing Starlink at a large enterprise where other external sources are connected and communicated with.

Also, Starlink operates at frequencies higher than traditional satellite systems, which helps to avoid interference and ensure a stable Internet connection.

Starlink can be a more affordable and accessible solution compared to other types of Internet connectivity, particularly in remote and inaccessible regions where wired or mobile connections may be more expensive or unavailable.

It will be relevant for the military, people living in remote locations, companies that need fast internet, researchers, and tourists.

However, it is also worth noting that in some cases, wired or mobile Internet may be a better option in terms of cost and availability, particularly in places with good communication infrastructure.

On the basis of this research the data from different material were received.

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