

Applications of Fiber Optic Communication in South Sudan



AI Overview

South Sudan is actively developing a national fiber optic network to improve internet access, reduce costs, and modernize its digital infrastructure.

Current Status and Projects

South Sudan has historically faced limited internet access, relying heavily on expensive satellite connections and outdated mobile networks, particularly outside the capital, Juba. To address this, the government has approved a \$9 million budget for the design phase of a national fiber optic project, aiming to create a high-speed, reliable network across the country. Construction is planned to begin in December 2026, covering approximately 2,400 kilometers and connecting South Sudan to the Indian Ocean via Kenya.

International Fiber Links

South Sudan is expanding its international connectivity through multiple fiber optic routes:

- From Uganda:** A 200-kilometer line completed in 2020 connects the Ugandan border to Juba.
- From Sudan:** Existing connections provide partial coverage but are insufficient for nationwide access.
- From Ethiopia:** A planned link will serve as the third international route, expected to increase bandwidth and lower internet costs.
- From Kenya:** A high-speed cable project in collaboration with the World Bank will link South Sudan to the Kenyan network, enhancing broadband reliability and affordability.

Expected Benefits

The fiber optic rollout is expected to:

- Reduce internet costs and improve access across urban and rural areas.
- Enhance education by enabling online learning resources for schools and universities.
- Support healthcare through telemedicine services reaching underserved communities.
- Boost economic growth by facilitating e-commerce, digital markets, and public service delivery.
- Strengthen government and business operations with more reliable communication infrastructure.

Challenges

Key challenges include:

- Energy supply:** Reliable electricity is critical for sustaining intern...

Article Content

South Sudan to Begin Fibre Optic Construction in December

(LUSAKA) – South Sudan will begin the construction and installation of its national fibre optic cable in December, connecting the country to the Indian Ocean through Kenya in a major step

South Sudan, World Bank to launch fiber optic project in early 2026

The fiber optic project, the government said, marks a significant step forward in the country's efforts to modernize its digital and communication networks. Once completed, it is expected

Optical Transceiver Market Size, Share, Trends | Forecast

The global optical transceiver market size was valued at USD 14.7 billion in 2025 and is projected to grow from USD 17.15 billion in 2026 to USD 46.12 billion by 2034, exhibiting a CAGR of

Fiber Optic Coverage and Internet Usage Statistics in South Sudan

An overview of fiber optic infrastructure and internet usage in South Sudan for 2026, highlighting connectivity progress and digital adoption.

South Sudan, World Bank set to launch fiber optic project in 2026

It is expected to catalyze the growth of South Sudan's digital economy by enhancing connectivity, reducing data costs, and laying the groundwork for innovation and resilience.

South Sudan Allocates USD 9 Million to Advance National Fiber Optic ...

In a major stride toward digital transformation, the government of South Sudan has approved a budget exceeding USD 9 million for the design phase of its national fiber optic

Gov't approves \$9 million for fiber optic design

By Morris "Dogga South Sudan has taken a step towards realizing digital transformation with the Fiber Optic Implementation Committee. On Friday, the fibre optic implementation committee,

South Sudan World Bank Fiber Optic Project Launch 2026

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South Sudan to Launch Fiber-Optic Project from Kenya

The Ministry of Information, Communication Technology and Postal Services (MOICT&PS) of South Sudan, in partnership with the World Bank, is preparing to start laying a fiber

South Sudan Fiber Optic Cables Market (2025-2031)

6Wresearch actively monitors the South Sudan Fiber Optic Cables Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and

South Sudan, World Bank set to launch fiber optic

Officials describe the fiber optic project as a critical milestone not only for the communications sector but for the country's wider development goals. It is

South Sudan approves multimillion dollar fibre rollout

South Sudan has set aside \$9 million for the design phase of an optic fibre project in the East African country. The initiative is expected to reduce communication costs, expand coverage,

South Sudan sets to import fiber optic from Kenya, Djibouti

South Sudan National Communication Authority has disclosed plan to import fiber optic broadband network from the republic of Kenya and Djibouti to ease communication access as the

Bayobab to deploy fiber in South Sudan

The wholesale fiber optic subsidiary of Africa's biggest mobile firm, MTN Group, presented its plans for South Sudan during a meeting with the country's National Communications

Gov't targets fibre optics to boost AI development

By Philip Buda Ladu The government of South Sudan is poised to significantly bolster its digital infrastructure, with plans to initiate the laying of its first-ever fibre optic network by September

Sudatel's fiber-optic network | Download Scientific Diagram

Download scientific diagram | Sudatel's fiber-optic network from publication: South Sudan's Infrastructure: A Continental Perspective | Newly independent South Sudan faces a challenge in

South Sudan Approves \$9 Billion Fiber Network to Accelerate Digital ...

South Sudan approved more than \$9 billion to build a national fiber-optic backbone. Authorities created a supervisory committee to tighten governance of digital gateways and data centers. The country

CONSTRUCTIONS OF COUNTRY'S FIBER OPTIC CABLE BEGINS

Oct 08, 2025 (LUSAKA) – South Sudan is set to begin constructions and laying down its 2400 kilometers of Fiber Optics cable coming from the Indian Ocean through the neighboring Republic of Kenya.

South Sudan Announces 2,400km Fiber-Optic Network to Strengthen

Gatkuoth stated that South Sudan is pushing to accelerate digital infrastructure development, attract investment, and foster regional cooperation through improved policy

High-Speed Fiber Optic Internet in South Sudan

Fiber Optic Connectivity with IPTEC Powering South Sudan's Digital Future At IPTEC Limited, we deliver the fastest, most reliable, and most secure internet

Adok discloses plans to get fiberoptic cables through

Africa-Press – South-Sudan. The Director-General of the National Communication Authority has revealed plans to connect South Sudan with fiber

South Sudan plans new fiber optic link to expand internet access

South Sudan plans to establish a new fiber optic link from Ethiopia to enhance internet access across the country, Information, Communication Technology, and Postal Services Minister

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