

Current Status of China-Pakistan Cross-Border Optical Cable



AI Overview

The China-Pakistan cross-border optical fiber cable is fully operational, connecting Rawalpindi in Pakistan to Khunjerab at the Chinese border, with ongoing plans to extend connectivity to Gwadar and Karachi. Project Overview The Pakistan-China Fiber Optic Project spans 820 kilometers within Pakistan, linking Rawalpindi to the Khunjerab Pass at the China-Pakistan border, and further connecting to Urumqi in China's Xinjiang region. The project was inaugurated in July 2018 and was constructed as part of the China-Pakistan Economic Corridor (CPEC), with Huawei and China Telecom collaborating with Pakistan's Special Communications Organization (SCO) for engineering, procurement, and construction. The cable provides 3G and 4G services and establishes a direct terrestrial link between Pakistan and China, reducing reliance on undersea cables. Technical and Operational Details Route Distribution: 466.54 km in Gilgit-Baltistan, 287.66 km in Khyber Pakhtunkhwa, 47.56 km in Punjab, and 18.2 km in Islamabad Capital Territory. Backup Link: A 172 km aerial optical fiber cable from Karimabad to Khunjerab ensures redundancy. Infrastructure: Includes 9 intensive light multiplexing rooms and modern equipment for signal transmission. Financing: 85% of the project cost is financed through a concessional loan from the Exim Bank of China, with the remaining 15% funded by Pakistan. Strategic Significance The cable is a key component of Pakistan's Digital Silk Road, enhancing digital connectivity, cybersecurity, and data transfer efficiency between Pakistan, China, and Central Asia. It provides: Lower latency for data transfer to China and Central Asia. Enhanced redundancy, reducing outages from undersea cable disruptions. Support for national digital initiatives, including the National Fiberization Policy and FTTH rollout. Future Expansion Phase II of the projec...

Article Content

Practice and Case Study on Cross-border Cable Project

Fiber Optic Cable is the first cross-border terrestrial cable directly connecting China and Pakistan. It stretches from Urumqi to Rawalpindi through the Khunjerab Pass at the China-Pakistan border. The

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Fiber optic cable deployed to connect Pakistan with China

A media report said that the need of this cross-country fiber optic cable grew after security concerns from Pakistan and China, who fear the possibility of India monitoring the

Engineering:Pakistan-China Fiber Optic Project

The line connects the Transit Europe-Asia Terrestrial Cable Network with that of Pakistan, which currently transmits its telecom and internet traffic through four undersea fiber optic cables,

Pak-China Optical Fiber Cable Launched for Service

The Pak-China cable will be jointly operated and maintained by Special Communication Organization of Pakistan and China Telecom. China Telecom and SCO have successfully completed

China Telecom Completes First China-Pakistan Optical Fiber Link

Yao Jing, Chinese ambassador to Pakistan, said that the "Pak-China Optical Fiber Cable" is the first cross-border cable which connects China and Pakistan directly. It was the early successes of "China

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Pakistan-China Fiber Optic Project

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Pakistan-China Fiber Optic Project

The Pakistan-China Fiber Optic Project is an 820 kilometer long optical fiber cable connecting Pakistan and China; it was laid down between the Khunjerab Pass on the China-Pakistan border and the

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The cross border Optical Fibre Cable project provides 3G and 4G services to Pakistan, spanning a total distance of 2,950 kilometers.

China Backed Cable Project Eyes Multi-Billion Dollar Investment in

Discussions centered on enhancing digital connectivity between Pakistan and the region through submarine and terrestrial optical fibre cable infrastructure.

Pak-China Cable

The Pak-China OFC is operated and maintained by Special Communication Organization, deployed by Huawei Technologies at a total cost of \$44 million. The Pak-China Optic Fiber Cable (Pak-China

China-Pakistan Cross-border Optical Fiber Cable Project

3) Pakistan's main international gateway optical fiber outlet now depends only on the submarine optical fiber cable near Karachi. China-Pakistan cable will provide Pakistan another international gateway

Cross Border Optical Fiber Cable

The China-Pakistan Economic Corridor (CPEC) includes a significant fiber optic project. This project, known as the Pak-China Optical Fiber Cable (OFC) Project, involves laying an 820 km fiber optic

The Digital Silk Road: CPEC And Pakistan's Tech Future

Projects include the laying of cross-border fibre-optic cables from China's Xinjiang to Rawalpindi, development of smart city infrastructure in Gwadar, and expansion of e-commerce

China and Pakistan cross-border fiber optic cable project is officially ...

Recently, China-Pakistan cross-border cable project launch ceremony was held in the northern city of Gilgit in Pakistan. Two representatives of the Government of Pakistan Prime Minister Nawaz Sharif

BRI Factsheet Series – Pakistan-China Optical Fibre Cable Project

The 820 km long Pakistan section (Phase 1) is the only Information and Communication Technology (ICT) project under the Pakistan Economic Corridor (CPEC). In a second phase, the cable will be

Pakistan-China Fiber Optic Project — Grokipedia

Completed and operationalized in July 2018, it represents the first direct cross-border terrestrial fiber connection between the two nations, integrating Pakistan into the Transit Europe-Asia network and

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Pak-China Optical Fibre Cable (OFC) Project

Pak-China Optical Fibre Cable (OFC) Project is OFC linkage between Pakistan and China under which 820 km long OFC laying between Rawalpindi and Khunjerab Pass was completed in a

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