Libya Broadcasting Dedicated Drop Fiber Cable



Overview

Libya's Digital Leap Forward with Medusa Cable This 8,700-kilometre fibre-optic network, encompassing 24 fibre pairs and a capacity of 20 terabits per seco.

Key Takeaways

Libya's broadcasting and telecommunications infrastructure is being significantly enhanced through dedicated fiber-optic connections, anchored by the Medusa subsea cable and domestic fiber networks.

Medusa Subsea Cable Integration

Libya is now connected to the Medusa submarine cable, an 8,700-kilometre, 24-pair fiber-optic system with a capacity of 20 Tbps per pair, linking North Africa directly to Europe. The cable lands in Tripoli and Benghazi, providing Libya with diversified international connectivity and reducing reliance on older, congested routes. This infrastructure enables high-speed internet, supports 5G deployment, and facilitates the expansion of data centers and cloud computing services.

The project is expected to be fully operational between 2025 and early 2026, with a design life of 25 years.

Domestic Fiber Network and Dedicated Drops



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The Libyan Fiber Optic Network (LFON) and the broader Next Generation Backbone Network (NGBN) form the domestic distribution system, connecting over 60 stations across Libya. These networks provide dedicated drop fiber connections to broadcasting facilities, government institutions, and private enterprises, ensuring high reliability and low latency for media transmission and digital services. The infrastructure supports LTE, 4G, and 5G technologies, and is designed for scalability to accommodate future bandwidth demands.

Strategic and Economic Impact

The integration of Medusa and domestic fiber networks allows Libya to export telecommunications services to neighboring countries, fostering economic growth and creating employment opportunities in the telecom sector. It also strengthens Libya's digital sovereignty, enabling secure and resilient communication channels independent of distant international hubs. For broadcasting, dedicated drop fibers ensure uninterrupted high-quality signal delivery for television, radio, and online streaming services, enhancing both national and regional media distribution.

Complementary Subsea Systems

In addition to Medusa, Libya is connected via other submarine cables such as Silphium, linking Darnah to Chania in Greece, and the Europe India Gateway (EIG). These systems, combined with LFON, provide redundancy and geographic diversity, critical for maintaining continuous broadcasting and internet services. ConclusionLibya's dedicated drop fiber cable infrastructure integrates international subsea cables like Medusa with a robust domestic fiber network, enabling high-capacity, reliable connectivity for broadcasting and digital services.

This strategic development positions Libya as a regional telecommunications hub, supports economic growth, and ensures resilient, high-quality media and internet services across the country.

Article Content

Libya''s Digital Leap Forward with Medusa Cable

This 8,700-kilometre fibre-optic network, encompassing 24 fibre pairs and a capacity of 20 terabits per second per pair, is set to connect 11 countries

DEDICATED FIBER INTERNET EXPLAINED FOR BUSINESS

Libya Broadcasting Dedicated Drop Fiber Cable This 8,700-kilometre fibre-optic network, encompassing 24 fibre pairs and a capacity of 20 terabits per second per pair, is set to connect 11 countries across

Telecommunications fiber optic cables in Libya

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This 8,700-kilometre fibre-optic network, encompassing 24 fibre pairs and a capacity of 20 terabits per second per pair, is set to connect 11 countries across the Mediterranean, including Libya, by the end

Libya Launches Medusa Cable to Enhance Connectivity

Launched on May 11, the 8,700-kilometer cable connects Libya directly to Europe''s extensive digital infrastructure, paving the way for deeper

Medusa Subsea Cable System Landed in Libya

The Libyan Post, Telecommunications and Information Technology Company (LPTIC) has announced the launch of the ''Medusa'' submarine cable project. LUIC joined the Medusa project in

Libya will connect to the Medusa submarine fiber optic cable that ...

Once commissioned, the Medusa cable is expected to not only improve the quality and coverage of broadband Internet services in Libya, but also reduce the costs of these services. This

Libya Launches Medusa Subsea Cable | Samoa

With the Medusa cable, the cities of Tripoli, Misrata, and Benghazi are set to experience a surge in internet quality and speed, paving the way for robust 5G

Libya taps into Europe''s digital artery with launch of Medusa subsea

With the Medusa cable, the cities of Tripoli, Misrata, and Benghazi are set to experience a surge in internet quality and speed, paving the way for robust 5G networks, the expansion of data

Libya Inks Deal for Medusa Submarine Cable Connection

The Libyan United International Company (LUIC), one of the newly established private sector companies working in the field of communications, recently inked a deal with Medusa

Libya will connect to the Medusa submarine fiber optic cable that ...

The Libyan United International Company (LUIC), a consortium formed by several Libyan private sector companies working in the field of communications, signed an agreement with Medusa

Telecommunications fiber optic cables in Libya

Spearheaded by the Libyan Post, Telecommunications and Information. LFON (Libyan Fiber Optic Network) is a domestic submarine cable network spanning approximately 1639 km and connecting

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Silphium

Silphium is the third Libyan international submarine cable system, in addition to Europe India Gateway (EIG) and Italy-Libya. There is also a domestic submarine cable system in Libyan, the Libyan Fiber

FTTX Services

FTTX Services With the increasing reliance on the internet in daily life, Libyan Elite, in partnership with Libya Telecom, provides exceptional Fiber To The X (FTTX) services to deliver fast and reliable

Fiber Optic – AFAQ ICT | Information Communication Technology

fiber optic technology. The company offers a wide range of services, including fiber optic network design, installation, and maintenance, as well as fiber optic cable testing and certification. Afaq ICT Company

From Football Fever to Offshore Energy — How Network Cabinets and Fiber ...

Why 2025 Is libya-network-infrastructure-tipping-point Libya enters 2025 with two converging forces: headline-grabbing events that expose critical infrastructure gaps, and an 88 percent internet

55 Best Internet providers in Libya, Fiber ISPs,

INTERNET PROVIDERS IN LIBYA, Fiber Coverage, List of ISPs, WiFi Prices, Broadband Rates, Satellite Network, and Installation Contacts.

Understanding Network Infrastructure and Fiber Optics in Libya

It''s an invaluable resource for anyone interested in network engineering, telecommunications in Libya, and the transition from traditional telephone systems to advanced fiber optics.

Medusa Submarine Cable System to be extended to Libyan coast

The submarine cable system, which has segments housing up to 24 fibre pairs capable of transmitting 20Tbps per fibre pair, is set to land in Libya by the end of 2025. Libya has 13 cable landing stations

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