ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Papua New Guinea Fiber Optic Channel

Overview

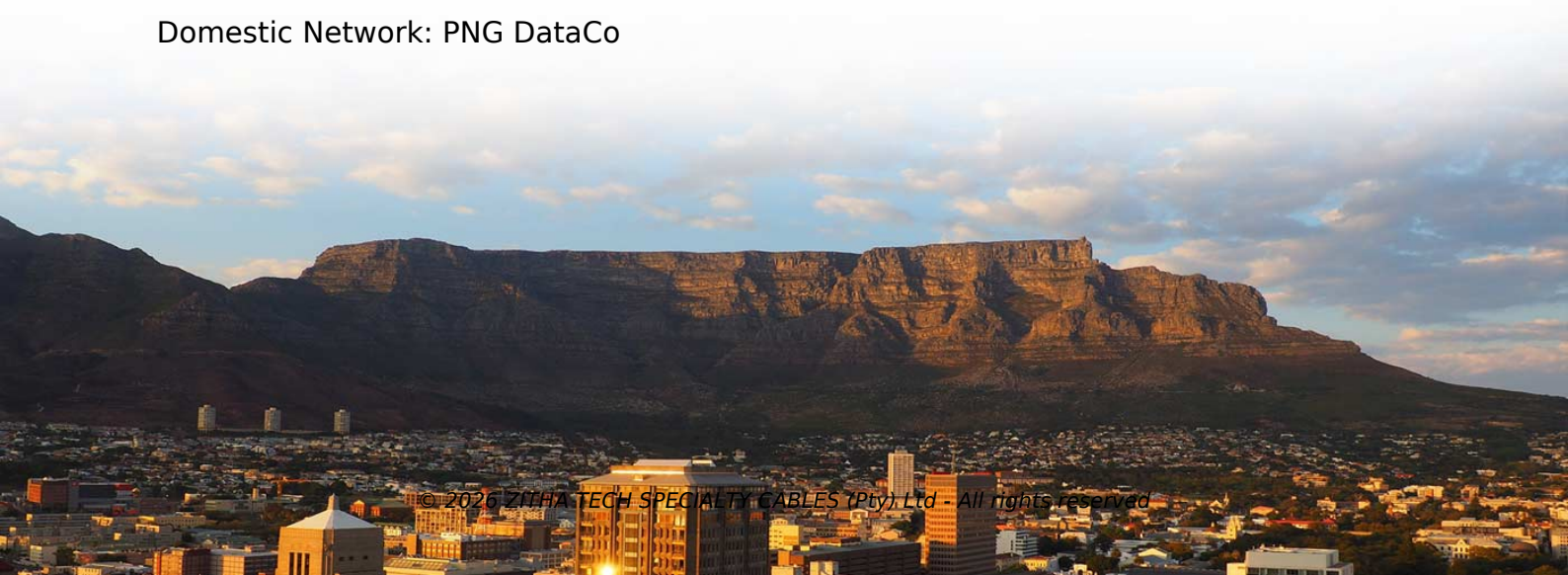
DataCo operates and maintains an extensive network of over 12,000km of fiber optic cable both internationally and locally.

Key Takeaways

Papua New Guinea's fiber optic connectivity is anchored by the Coral Sea Cable System and an extensive national network operated by PNG DataCo, providing high-speed international and domestic internet access.International Connectivity: Coral Sea Cable System

The Coral Sea Cable System (CS2) is a 4,700 km submarine fiber optic cable linking Port Moresby, PNG, and Honiara, Solomon Islands, to Sydney, Australia . Completed in late 2019, it offers a capacity of up to 40 Tbps, significantly improving internet speed and reliability compared to previous systems . The cable uses Dense Wavelength Division Multiplexing (DWDM) and 100G repeaters to ensure high-capacity, low-latency connections . CS2 is jointly owned by PNG DataCo, the Commonwealth of Australia, and the Solomon Islands Submarine Cable Company, enhancing regional connectivity and economic development .

Domestic Network: PNG DataCo



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PNG DataCo operates over 12,000 km of fiber optic cable across the country, connecting 44 districts via fiber and 23 via satellite, achieving a 70% district connectivity rate . The network includes 14 cable landing stations along the Kumul Submarine Cable Network and integrates the Coral Sea Cable for international access . PNG DataCo also manages data centers in Port Moresby and Madang, supporting government, enterprise, and digital services . The network's design reduces latency, increases availability, and lowers costs for wholesale telecommunications and digital services .

Local Fiber Infrastructure and Contractors

Local contractors like Cetelnet provide end-to-end fiber optic services, including network design, installation, splicing, testing, and maintenance . They support urban and rural deployments, enabling connectivity for telecommunications providers, government, healthcare, education, and industrial sectors . Fiber optic technology in PNG is critical due to the country's geographically diverse terrain, ensuring reliable high-speed internet for both backbone and last-mile connections .

Impact and Benefits

The combination of the Coral Sea Cable System and PNG DataCo's national fiber network has transformed PNG's digital landscape. Benefits include:

• Faster and more reliable internet for businesses, education, and government services .

• Expanded access to remote areas, bridging the digital divide .

• Lower costs for wholesale and retail internet services, supporting economic growth .

• Enhanced regional and global connectivity, enabling PNG to participate more fully in international digital markets . Overall, Papua New Guinea now has a robust fiber optic infrastructure that supports both high-capacity international links and comprehensive domestic coverage, laying the foundation for continued digital development and economic growth.

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Current Status of Fiber Optic Communication in Papua New Guinea

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Coral Sea Cable Company

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East Coast NetLink provides fiber optics connectivity solutions for businesses and organizations in Papua New Guinea. We offer high

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Coral Sea Cable System project marks key milestones

The 4,700km Coral Sea Cable System under construction by Vocus, has

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TechInPacific – The Coral Sea Cable is a collaborative project between Australia and Papua New Guinea (PNG)

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The project is intended to utilize approximately 5, 600 kilometres of submarine fibre optic cables to connect at least 15 coastal and

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Papua New Guinea Fiber Optics Cable Market (2025-2031) | Trends ...

6Wresearch actively monitors the Papua New Guinea Fiber Optics Cable Market and publishes its comprehensive annual report,

Progress on Papua New Guinea''s national broadband network

Ramamurthy told delegates at this week''s Papua New Guinea Advantage investment summit that the National

Coral Sea (CS²)

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All provinces to be connected by fiber optic cables next year

STEPHEN R MASE UPNG Journalism student System Two of the undersea submarine cable between Port Moresby and Madang is

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