

Papua New Guinea Cost-Effective Access Switch 100G



Overview

These Networking Hubs & Switches are being sold at Theodist showrooms in Port Moresby, Lae and Mount Hagen, Papua New Guinea. Upgrade your company network now!

Key Takeaways

Deploying cost-effective 100G access switches in Papua New Guinea requires balancing high-speed performance with affordability and rugged deployment options suitable for urban and rural environments.

Context for PNG Deployment

Papua New Guinea faces high internet costs, low broadband penetration, and challenging terrain, with most connectivity concentrated in urban centers like Port Moresby and Lae. Mobile networks dominate, but fiber infrastructure is expanding through projects like the Kumul Submarine Cable Network (KSCN) and DataCo's provincial POPs. Any 100G access switch deployment must therefore consider:

- Integration with existing fiber backbones (GPON or submarine cables)
- Support for multiple ISPs or mobile operators to reduce costs per household
- Ruggedized hardware for remote or tropical environments
- Energy efficiency due to limited power availability in rural areas

Recommended Features for Cost-Effective 100G Switches

When selecting 100G access switches for PNG, prioritize:

- Port Density and Flexibility: Switches with a mix of 100G uplinks and 10/25G downlinks allow aggregation of multiple smaller connections without overspending.

Layer 2/3 Capabilities: Support for VLANs, routing, and QoS ensures efficient traffic management for ISPs and enterprise networks. **Power Efficiency:** Low power consumption reduces operational costs, especially in areas with limited electricity. **Modular or Stackable Design:** Enables incremental expansion as fiber coverage grows, avoiding large upfront costs.

Vendor Support and Local Availability: Consider suppliers with showrooms or distributors in PNG (e.g., Theodist in Port Moresby, Lae, Mount Hagen),.

Cost-

Effective 100G Switch Options Some widely used, cost-effective 100G access switches suitable for emerging markets include: MikroTik CRS354/CRS326 Series: Offers 100G uplinks with multiple 10G/25G ports, affordable, and suitable for small to medium ISPs. Ubiquiti EdgeSwitch/EdgeRouter Infinity: Provides 100G uplinks, modular design, and strong community support. Cisco Catalyst 9500/9300 Series: Enterprise-grade, stackable, with 100G uplinks; slightly higher cost but reliable for urban POPs.

Juniper EX4300/EX4600: Offers 100G uplinks, virtual chassis stacking, and robust Layer 3 features. For rural or communal tower deployments, hybrid solutions combining GPON fiber aggregation with 100G uplinks can reduce per-household costs while leveraging DataCo's planned 500 communal towers.

Deployment Strategy

Urban Centers First: Deploy 100G switches in Port Moresby, Lae, and other provincial capitals to maximize user coverage. **Neutral Host Model:** Share infrastructure among multiple ISPs to reduce costs and improve affordability. **Incremental Expansion:** Start with modular switches and expand ports as fiber and subscriber demand grow.

Integration with Cloud Services: Use hybrid cloud and data center connectivity to support digital services and reduce latency.

Conclusion

To achieve cost-effective 100G access in PNG, focus on modular, energy-efficient switches with flexible uplinks, deploy in urban POPs first, and leverage shared infrastructure models. Local suppliers like Theodist can provide hardware and support, while integration with DataCo's expanding fiber network ensures scalability and affordability for households and businesses.

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Papua New Guinea

Overview Papua New Guinea (PNG) is gradually developing its digital economy, mainly due to improved access to new technologies, internet connectivity, and communication initiatives led

World Bank Document

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