

Price of Low-Loss Passive Optical Devices for Emergency Communication in Nigeria



Overview

Let TradeFord match your sourcing needs with suitable Passive Optical Network suppliers, exporters and manufacturers.

Key Takeaways

Low-loss passive optical devices in Nigeria typically range from USD 10 to USD 500 per unit, depending on type, specifications, and packaging. Overview of Passive Optical Devices

Low-loss passive optical devices, such as splitters, couplers, wavelength division multiplexers (WDMs), optical isolators, and connectors, are essential for emergency communication networks because they manipulate light signals without external power, ensuring reliable signal distribution and minimal attenuation . These devices are widely used in fiber-to-the-home (FTTH), telecommunication backbones, and critical infrastructure networks .

Global Market Context

The global passive optical component market is projected to grow from USD 58.4 billion in 2025 to over USD 117 billion by 2031, driven by 5G rollouts, IoT expansion, and high-speed broadband demand . Optical passive devices are increasingly adopted due to their cost efficiency, scalability, and low maintenance, which is particularly important for emergency communication systems .

Estimated Pricing in Nigeria

While exact Nigerian pricing varies by supplier, import duties, and shipping, typical low-loss optical splitters and couplers are priced approximately:

- Simple 1x2 or 1x4 splitters: USD 10–50 per unit
- High-precision WDMs or CWDM/DWDM modules: USD 100–500 per unit
- Optical isolators and circulators: USD 50–300 per unit
- Connectors and adapters: USD 5–20 per piece Prices may increase for custom specifications, PM (polarization-maintaining) devices, or devices tested to GR-1209/1222 standards . Bulk procurement for emergency networks can reduce per-unit costs.

Suppliers and Procurement

In Nigeria, passive optical devices can be sourced from:

- Local distributors of global brands such as II-VI Incorporated, Lumentum, NeoPhotonics, and Lightel
- Regional telecom equipment suppliers who provide FTTH and PON solutions
- International e-commerce or B2B platforms for specialized low-loss devices When procuring for emergency communication, it is recommended to prioritize low insertion loss, high reliability, and compliance with international standards to ensure network resilience.

Conclusion

For emergency communication in Nigeria, low-loss passive optical devices are available at USD 10–500 per unit, depending on type and specifications. Considering the critical nature of emergency networks, investing in high-quality, standards-compliant components is essential for reliable performance and minimal signal degradation .

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