

PASSIVE OPTICAL LAN (POL)

A NEW ERA IN STRUCTURED CABLING SOLUTIONS

The smart alternative to traditional structured cabling, Passive Optical LAN (POL) delivers significantly better performance than a traditional Ethernet LAN and up to 50% savings in operating costs.

As businesses contemplate how to introduce a new generation of services, improve productivity, lower costs and build a competitive advantage, they are faced with tough decisions about the performance and capacity of their existing local area networks.

Passive Optical LAN (POL) technology eliminates the networking limitations imposed by traditional copper-based ethernet, delivering:

- Up to 50% savings in operating costs.
- 1500 devices per core switchport.
- Significantly greater bandwidth.
- Greater speeds per user / device.
- Network convergence.
- Simpler operations.

Traditional copper is both labour and cost intensive, whereas Passive Optical LAN (POL) removes the challenges of:

- Crowded equipment rooms.
- Seismic engineering.
- Complex wiring closets.
- Increased high-volume air conditioning (HVAC).

The copper deployment model creates an environment that is expensive, wasteful and inefficient to maintain.

Passive Optical LAN (POL) is based on a technology called Gigabit Passive Optical Networking (GPON). GPON is deployed by many of the world's largest telecommunications carriers and serves millions of users worldwide. Along with Passive Optical LAN (POL), GPON has quickly established itself as the worldwide standard for delivering a new generation of services.

For any project, which includes installing a new building cabling network or refurbishing an existing infrastructure, Passive Optical LAN (POL) should be the solution of choice.

Partnering with Nokia

Lexel has chosen to lead with the world's leader in Passive Optical LAN (POL) technology.

Our services:


The most qualified Nokia Passive Optical LAN (POL) partner in Australasia, Lexel offers peace of mind for your Passive Optical LAN (POL) migration.


End-to-end services. From design to deployment Lexel is the only partner you need for your Passive Optical LAN (POL) solution.


Managed services. 100% OPEX, Lexel's Passive Optical LAN (POL) solution includes SLAs to meet your organisation's unique business requirements.


Support. With on-site and remote support options across Australasia, Lexel is available 24 x 7 x 365.


Benefits of Passive Optical LAN (POL)

 **Bandwidth.** Up to 2.5 Gb/s and up to 10Gb/s both downstream and upstream over a single strand of glass.

 **Future-proof.** Capable of serving hundreds of thousands of connected devices, Passive Optical LAN (POL) includes co-existence, integration into software defined networking and 5G or private LTE mobile, along with 25Gb connectivity in the roadmap.

 **Security.** Delivering a military-grade secure environment for transporting sensitive data, POL is inherently hard to tap into. Fibre has no cross-talk and unlike copper, is not affected by electromagnetic interference.

 **Network convergence.** Converge up to 3000 digital services (voice, data, CCTV, IPTV, AV) onto the same fibre network allowing more efficient maintenance, cabling and performance.

 **Lower operating costs.** With up to 50% lower operating costs, Passive Optical LAN (POL) delivers savings in maintenance, power, space, management, service contracts, testing, certification and upgrades.