

#smartconnection

LAN systems



LANmark Power-OF Hybrid Solution

Hybrid Fibre + Power Infrastructure
for the Digital Building

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Hybrid Fibre + Power Infrastructure for the Digital Building

A clean, structured approach to delivering high-capacity data and centralized low-voltage power in modern building environments. Designed for Wi-Fi 6/7, indoor 5G, IoT and smart-building endpoints where performance, safety and long-term maintainability must coexist.

The building is becoming a network

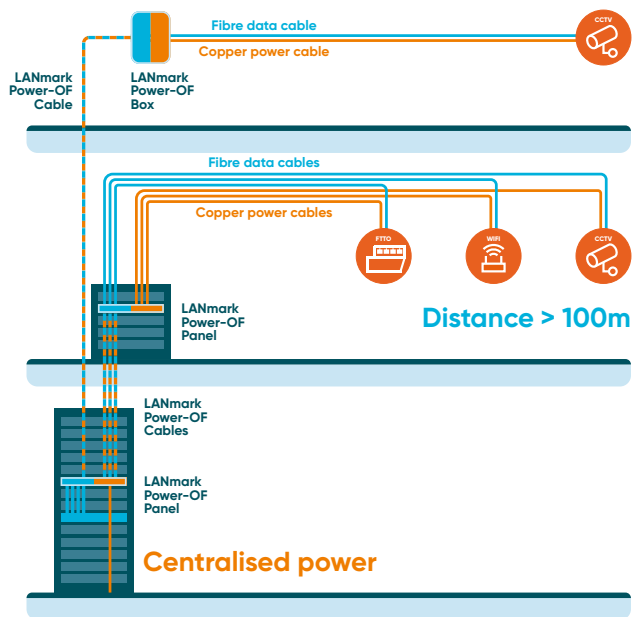
Across offices, campuses and critical facilities, digital services are moving closer to people and processes. Wi-Fi 6/7, indoor 5G, dense IoT deployments, security systems and building automation all increase the need for higher bandwidth and reliable power delivery at the edge.

Traditional cabling approaches that separate fibre for data and copper for power often increase complexity: more routes, more ceiling congestion and less flexibility over time. Modern buildings require integrated architectural solutions that simplify deployment while preserving performance and safety.

A smarter approach: Hybrid Fibre & Power

The LANmark Power-OF Hybrid Solution brings optical data transmission and centralized low-voltage power together within one coherent, structured cabling architecture. It is designed as an end-to-end system that supports clean installation, controlled changes and predictable operation throughout the building lifecycle.

The solution is built around three complementary elements: the LANmark Power-OF Hybrid Cable, the LANmark Hybrid Box and the LANmark Hybrid Panel, forming a consistent architecture from the distributor to the endpoint.



Core components

LANmark Power-OF Hybrid Cable

A compact (~8.4 mm) hybrid cable integrating optical fibres for data transmission and copper conductors for power under a single robust jacket. Available in Cca, B2ca and non-CPR versions.

Reference	Description
NFP1.A24A2A-WB	B2ca: high fire performance
NFP1.A24A2A-WC	Cca: standard building regulation
NFP1.A24A2A-WE	Eca: non-EU markets

- 2 × G.657.A2 optical fibers
- Coating - Ø 0.9mm
- Aramid yarn reinforcement
- Halogen free flame retardant sheath
- 2 × 1.5 mm² copper conductors
- Reduced diameter (~8.4 mm)
- Halogen free flame retardant insulation
- Water blocking protection
- UV resistant outer jacket



LANmark Hybrid Box

A compact termination box that separates fibre and power for clear cable management and professional installation in wall or ceiling environments. Supports fibre splicing and safe power distribution up to 48 V.

Reference
NFPB.4LD1M2.GE

- 1 LC Duplex fibre adapters
- 2 power push-wire connectors
- Integrated fibre splicing capability
- Clear separation of copper and fibre
- Sliding design for easy access and maintenance
- Perfect for space-constrained environments



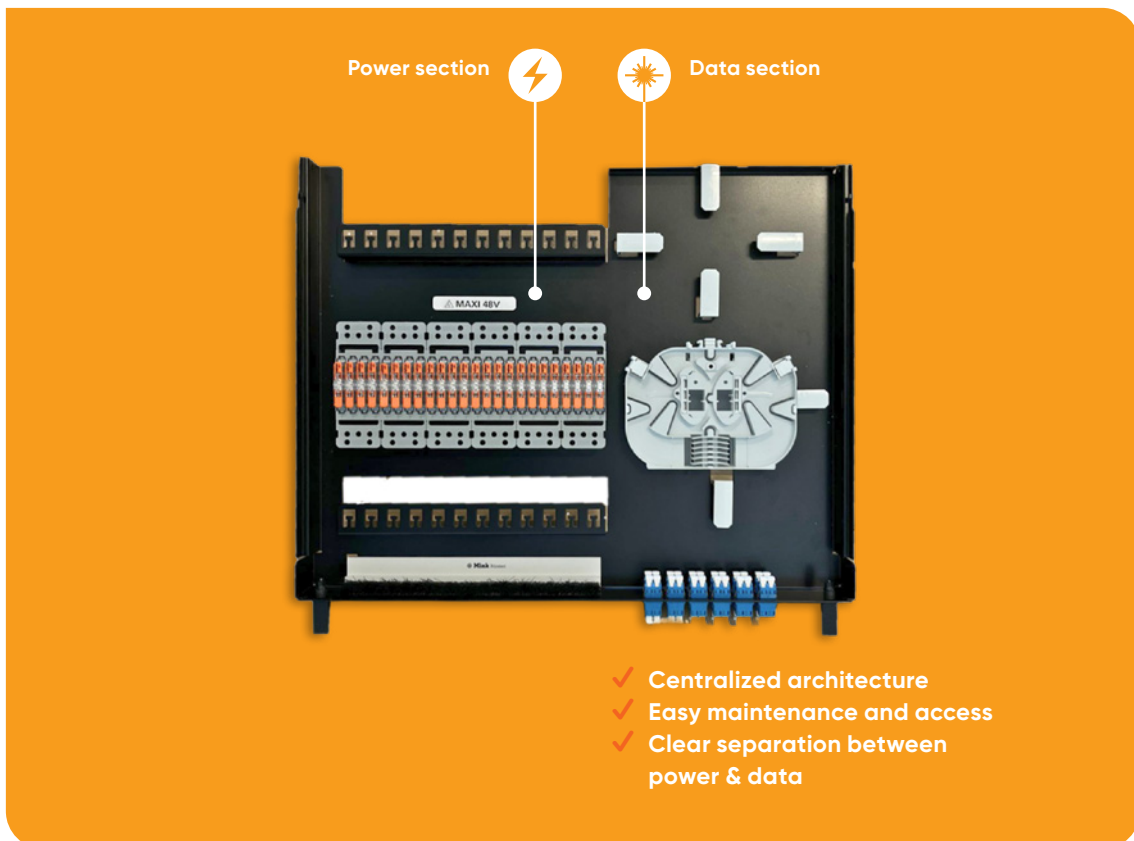


LANmark Hybrid Panel

A 19-inch, 1U rack-mounted panel centralizing hybrid connectivity. Provides clear separation between data and power and supports structured operations from the floor or building distributor.

- 12 LC Duplex fibre adapters
- 24 power push-wire connectors
- Integrated fibre splicing capability
- Clear separation of copper and fibre
- Sliding design for easy access and maintenance

Reference
NFPP.4LD12M241U.BE



Plan once. Scale with confidence.

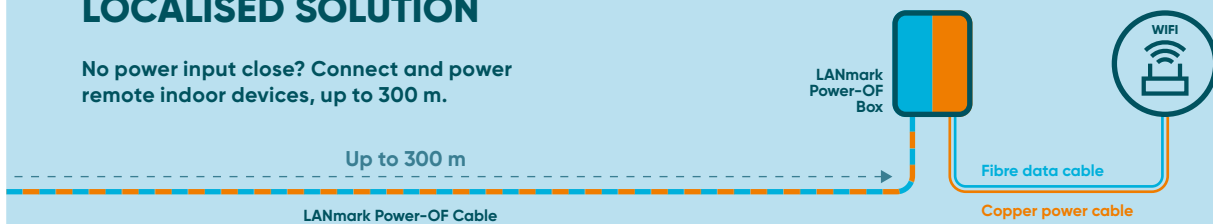
LANmark Power-OF Hybrid provides a clean, structured foundation for modern building connectivity. Whether extending wireless coverage, enabling indoor 5G or deploying distributed sensors and security systems, Aginode helps you design a hybrid infrastructure that is ready today and adaptable tomorrow.

Key design principles:

- **End-to-end architectural consistency** rather than isolated components
- **Maintainability and serviceability** as core design requirements
- **Safety by design** through clear separation of power and fibre
- **Fibre-based performance** without typical copper distance constraints

LOCALISED SOLUTION

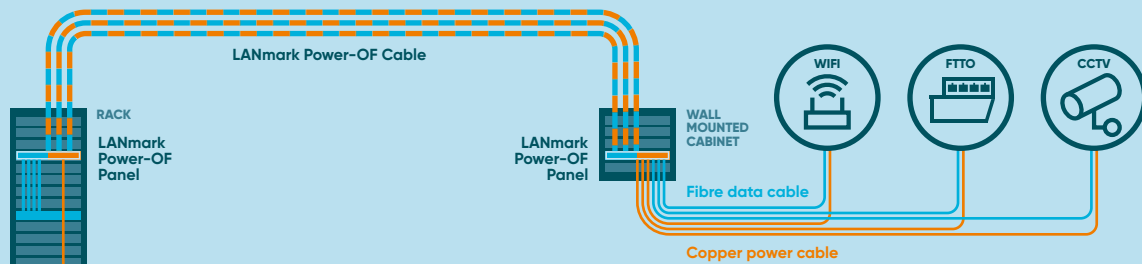
No power input close? Connect and power remote indoor devices, up to 300 m.



- ✓ Simply pull one cable
- ✓ Small, discrete box near device

CENTRALISED SOLUTION

Connect & power multiple devices with less cabling, with centralised connectivity and power management.



- ✓ Reduced number of cabling
- ✓ Easier and faster installation
- ✓ More flexibility and scalability



Why choose a hybrid architecture



Simplicity

One integrated pathway for data and power reduces routing effort and ceiling congestion.



Performance

Fibre-based bandwidth supports current and future wireless and building applications.



Optimization

Fewer parallel cables result in cleaner containment and lower infrastructure complexity.



Reliability

Centralized low-voltage power delivery designed for professional environments.



Safety

LSZH construction and high fire-performance options, including B2ca, for demanding locations.

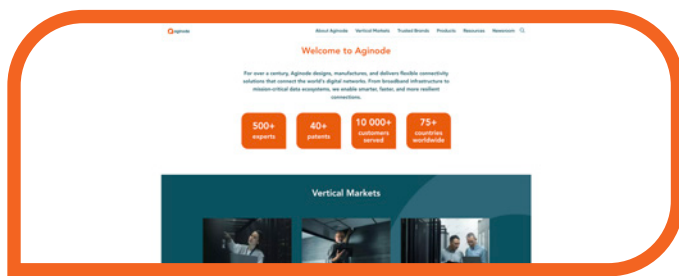
Talk to us

Have a project in mind? Get in touch to explore the best solutions for powering and connecting your devices – from Wi-Fi and CCTV cameras to integrated smart infrastructure. We'll help you assess the potential benefits, define the right approach, and design an architecture tailored to your project's specific needs.

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