HOSTLINK

HYBRID STRUCTURED CABLING SOLUTION

DESIGN THE INFRASTRUCTURE FIRST. CHOOSE THE TECHNOLOGY WHEN YOU ARE READY.

A future-ready infrastructure designed to support both IP / Active Ethernet and GPON / Passive Optical Network in one unified structured cabling system.



ONE INFRASTRUCTURE. TWO ARCHITECTURES. MULTIPLE APPLICATIONS.

IP / ACTIVE ETHERNET

GPON / PASSIVE OPTICAL

FLEXIBLE
Supports both IP and GPON

SCALABLE
From single building to global chain

RELIABLE
Stable and secure performance

COST-EFFICIENT
Optimized infrastructure for long-term value

FUTURE-READY
Adapts to evolving technology and services

THE STORY

Today's Building Must Be Ready for Tomorrow's Technology

A network architecture can evolve. The passive infrastructure inside the building should be ready to evolve with it.

THE REAL CHALLENGE IS TIMING.

Passive infrastructure is often designed and installed long before the final network architecture, active equipment, and applications are fully determined.

By the time technology decisions are finalized, the physical infrastructure may already be in place for decades.

Why should an infrastructure decision made today limit a technology decision made tomorrow?

DIFFERENT ARCHITECTURES. DIFFERENT STRENGTHS.

IP / Active Ethernet

Why should an infrastructure decision made today limit a technology decision made tomorrow?

GPON / Passive Optical Network

An optical distribution architecture using passive splitters and ONU/ONT devices, providing long reach while minimizing intermediate active equipment where appropriate.

Both architectures have distinct strengths. In many projects, the best answer may be a combination of the two

THE INFRASTRUCTURE SHOULD KEEP THE CHOICE OPEN.

THE CHALLENGE

When Infrastructure Must Be Decided Before Technology

Structured cable remains in service through multiple generations of active equipment.

01 **INFRASTRUCTURE IS EMBEDDED IN THE BUILDING**

Once installed, structured cabling becomes part of the building's physical infrastructure - above ceilings, inside risers, through pathways, cabinets, and telecommunications spaces. Changing it later can be costly, disruptive, and difficult.

02 **TECHNOLOGY IS SELECTED LATER**

The infrastructure is often designed and installed before the final technology direction is fully determined. A project initially planned around IP / Active Ethernet may later consider GPON / Passive Optical Network, or a combination of both.

03 **REQUIREMENTS CONTINUE TO EVOLVE**

Different areas of a building may have different requirements for bandwidth, power, topology, connectivity, and operational models.

A BETTER QUESTION

" How can we design the infrastructure today while preserving the freedom to choose the right technology tomorrow?"

This question became the foundation for HOSTLINK.

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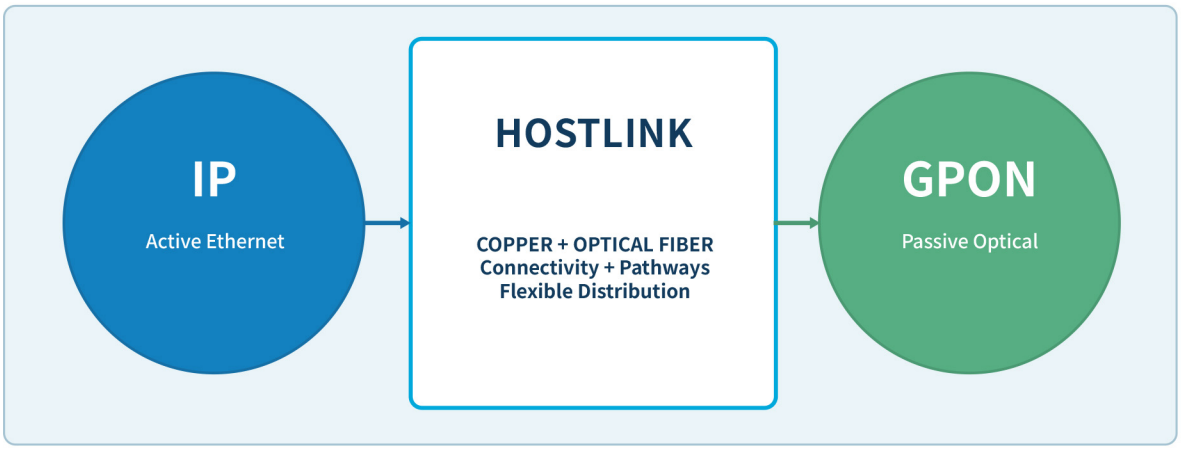
“ The Infrastructure That Keeps Your Options Open”

A coordinated passive infrastructure strategy for IP/ Active Ethernet, GPON / Passive Optical – or a combination of both.



DESIGN THE INFRASTRUCTURE FIRST. CHOOSE THE TECHNOLOGY WHEN YOU ARE READY.

Preserve choice

Avoid locking the building into a Single topology before project Requirements are clear.

Match the application

Select IP. GPON or hybrid according to bandwidth, Distance, power and Operational needs.

Plan the lifecycle

Build the passive foundation for technology changes, expansion and future and future services.

HYBRID BY DESIGN

One Building. Different Needs.

The network architecture should follow the application not force every application to follow one topology.

Wi-Fi & PoE Devices	Active Ethernet may be well suited where direct Ethernet connectivity and PoE are required.
Guest / Patient / Residential Units	GPON may be attractive where optical distribution, long reach or reduced intermediate active equipment is beneficial.
CCTV & Security	Select architecture according to bandwidth, PoE, topology and operational requirements.
IPTV & Entertainment	Can operate across different IP transport architectures when the complete system is designed accordingly.
Smart Room / IoT / Building Systems	Connectivity depends on the device ecosystem, gateways, protocols and integration strategy.

IP where IP makes sense.
GPON where GPON makes sense.
Hybrid where Hybrid makes sense.

APPLICATIONS

From Hospitality to Every Connected Building

HOSTLINK was inspired by hospitality complexity, but the same infrastructure principle applies wherever digital services evolve over a long building lifecycle.

HOTELS & RESORTS	Guest rooms + Wi-Fi + IPTV + Smart rooms + CCTV + Building systems
HOSPITALS & HEALTHCARE	Patient rooms + Wi-Fi + IPTV + CCTV + Information and building systems
CONDOMINIUMS & APARTMENTS	Internet + Wi-Fi + IPTV + CCTV + Smart living
RESIDENTIAL & SMART HOMES	High-speed network + Wi-Fi + Entertainment + CCTV + IoT + Home automation
OTHER CONNECTED BUILDINGS	Projects that benefit from a flexible copper + fiber infrastructure strategy.

COPPER + FIBER. TWO MEDIA. ONE INFRASTRUCTURE STRATEGY.

THE HOSTLINK ECOSYSTEM

A Complete Passive Infrastructure Foundation

Essential structured cabling elements brought together under one coordinated design philosophy.

OPTICAL FIBER

Fiber optic cable
ODF + adapters + pigtails + patch cords

COPPER CABLING

CAT6 / CAT6A cable
Patch panels + outlets + patch cords

DISTRIBUTION

Racks + cabinets + cable management
Pathways + floor / zone distribution

SYSTEM READINESS

Labeling + testing + documentation
Spare capacity + expansion planning

BUILD ONCE. ADAPT FOR THE FUTURE.

Active equipment can be replaced as technology evolves. The infrastructure inside walls, ceilings, risers and telecommunications spaces is far more disruptive to replace.

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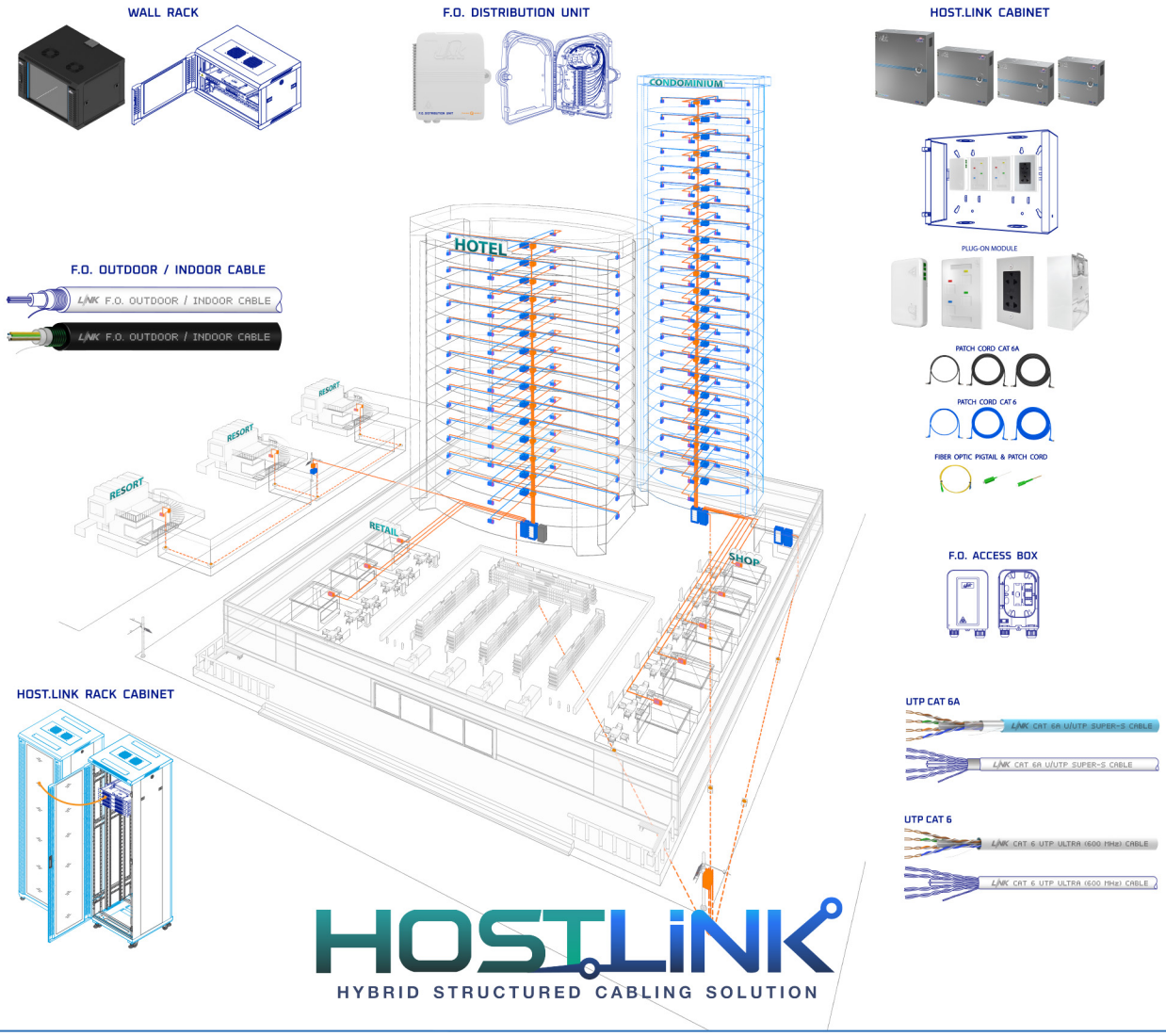
01	**FLEXIBLE**	Support both IP and GPON
02	**SCALABLE**	From a single building to larger multi-building environments
03	**RELIABLE**	A structured, testable and documented cabling foundation
04	**COST-EFFICIENT**	Optimize infrastructure choices for long-term value
05	**FUTURE-READY**	Adapt to evolving technology and services

DON'T BUILD INFRASTRUCTURE AROUND TODAY'S TECHNOLOGY. BUILD IT FOR TOMORROW'S CHOICES.



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LINK® American Cabling

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