INFO SHEET

AI & Hyperscaler-Ready Data Centers: The Fiber and Network Essentials

Introduction: Why Connectivity Matters

As a developer, you know power, cooling, and real estate are critical. But for hyperscalers and AI companies, none of that matters without the right network foundation.

Connectivity is often the dealbreaker. The right fiber and network partner doesn't just light up your facility — it makes it more marketable, accelerates lease-up, and keeps tenants satisfied long-term.

The Connectivity Essentials

High Fiber Count = High Capacity

Don't get passed over because your network partner can't deliver. Hyperscalers look for true high-count fiber builds that won't cap their growth.

Flexible Services to Market Your Facility

Dark Fiber. High-capacity Lit Wavelengths and Dedicated Internet Access. Flexibility gives you more ways to say "yes" when prospects ask what's available.

Scalable Bandwidth for AI-Scale Workloads

Providers that utilize next-gen transport platforms (like Ciena) can offer bandwidth capacity of 800G multiple wavelengths that combine to deliver Tbps of capacity. That's the scale AI workloads demand.

Proven Hyperscaler / AI Experience

It's not just about having fiber. Meeting hyperscaler requirements takes deep planning around redundancy, diverse routing, and SLAs. You want a partner who's done this before — and can prove it.

Regional Density + Global Reach

Hyperscalers won't pick an island. They want dense local connectivity plus seamless interconnection to global ecosystems.

Expert Local Support = Faster Deals

Responsive engineers and planners who partner with you — helping answer tenant questions, designing redundancy, and co-selling your facility as hyperscaler/AI-ready.

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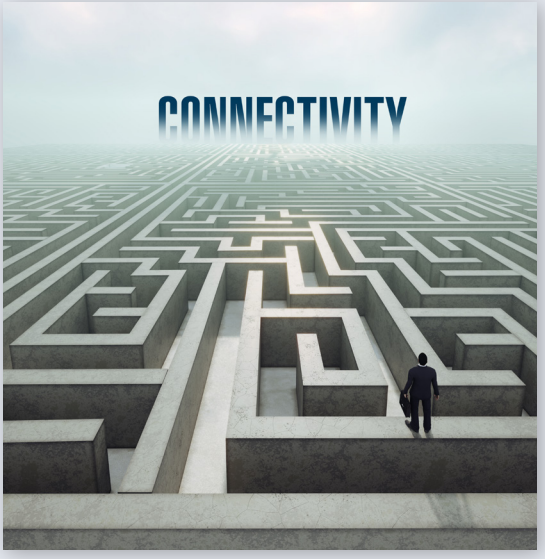

Common Connectivity "Gotchas"

Questions you'll want the right answer for...

- Is your fiber truly high-count, or a legacy system?
- How new is the fiber — and can it support next-gen electronics?
- Are your electronics scalable platforms (e.g., Ciena) or outdated?
- Do you have real path diversity (north/south/east/west, multiple entrances)?
- Can the network scale quickly enough to meet our growth and timelines?

Real World Results

FirstLight Chosen by Major Hyperscaler to Deliver 280-Mile, AI-Ready Fiber Network

Challenge

A leading hyperscaler needed high-capacity connectivity into a Pennsylvania data center — complete with redundant pathways, multiple entrances into the building and the ability to scale for future growth.

Solution

FirstLight delivered 280 miles of fiber built on 800G wavelengths, providing terabit-scale capacity with low latency and regional redundancy.

Result

With FirstLight, the hyperscaler gained a resilient, scalable foundation for its critical data center operations—built for today's demands and ready for what's next.

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Position Your Facility as AI/Hyperscaler-Ready

The market is moving fast. Developers who build without network foresight risk getting left behind.

With FirstLight as your network partner, you can:

- Market your facility as ready from day one
- Fill capacity faster with attractive connectivity options
- Rest easy knowing redundancy, scale, and tenant demands are covered

Build it right, and the hyperscalers / AI companies will come.

Make your data center hyperscaler-ready.

Request a Network Readiness Assessment for your facility and see how FirstLight can help you attract and retain tenants faster.