

Global Hollow-Core Fiber Links for AI Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hollow-Core Fiber Links for AI Data Centers market size is expected to reach \$ 1152 million by 2032, rising at a market growth of 21.4% CAGR during the forecast period (2026-2032).

Hollow-core fiber (HCF) link solutions for AI data centers consist of cables and interconnects designed to link AI training clusters across server rooms, campuses, and metropolitan areas. By utilizing air-core propagation to reduce latency, nonlinear effects, and dispersion, these solutions support applications such as low-latency distributed training, financial trading, and quantum communication. The upstream sector comprises high-purity quartz preforms, coating materials, fiber-drawing equipment, and connectivity components, while the downstream market includes cloud providers, network operators, data center campuses, and low-latency network service providers. The industry's gross profit margin ranges from approximately 25% to 40%.

This report studies the global Hollow-Core Fiber Links for AI Data Centers demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hollow-Core Fiber Links for AI Data Centers, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hollow-Core Fiber Links for AI Data Centers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hollow-Core Fiber Links for AI Data Centers total market, 2021-2032, (USD

Million)

Global Hollow-Core Fiber Links for AI Data Centers total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Hollow-Core Fiber Links for AI Data Centers total market, key domestic companies, and share, (USD Million)

Global Hollow-Core Fiber Links for AI Data Centers revenue by player, revenue and market share 2021-2026, (USD Million)

Global Hollow-Core Fiber Links for AI Data Centers total market by Type, CAGR, 2021-2032, (USD Million)

Global Hollow-Core Fiber Links for AI Data Centers total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Hollow-Core Fiber Links for AI Data Centers market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Microsoft Lumenisity (US), Lightera (US), Furukawa Solutions?JP?, Nokia (FI), Prysmian Group (IT), Corning (US), Fujikura (JP), Sumitomo Electric (JP), NKT Photonics (DK), YOFC (CN), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Hollow-Core Fiber Links for AI Data Centers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hollow-Core Fiber Links for AI Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hollow-Core Fiber Links for AI Data Centers Market, Segmentation by Type:

Scale-Up

Scale-Out

Global Hollow-Core Fiber Links for AI Data Centers Market, Segmentation by Product Category:

Nested Anti-Resonant HCF

Photonic Bandgap HCF

Conjoined-Tube HCF

Global Hollow-Core Fiber Links for AI Data Centers Market, Segmentation by Network Architecture:

Campus Link

Metro Link

Quantum/Sensing Link

Global Hollow-Core Fiber Links for AI Data Centers Market, Segmentation by Application:

- AI Scale-Across Interconnect
- Cloud Inter-DC Network
- Low-Latency Financial Network
- Quantum Communication
- Others

Companies Profiled:

- Microsoft Lumenisity (US)
- Lightera (US)
- Furukawa Solutions?JP?
- Nokia (FI)
- Prysmian Group (IT)
- Corning (US)
- Fujikura (JP)
- Sumitomo Electric (JP)
- NKT Photonics (DK)
- YOFC (CN)
- Hengtong Optic-Electric (CN)
- FiberHome (CN)

Sterlite Technologies (IN)

Key Questions Answered

1. How big is the global Hollow-Core Fiber Links for AI Data Centers market?
2. What is the demand of the global Hollow-Core Fiber Links for AI Data Centers market?
3. What is the year over year growth of the global Hollow-Core Fiber Links for AI Data Centers market?
4. What is the total value of the global Hollow-Core Fiber Links for AI Data Centers market?
5. Who are the Major Players in the global Hollow-Core Fiber Links for AI Data Centers market?
6. What are the growth factors driving the market demand?

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