

Global Hollow-Core Fiber Links for AI Data Centers Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hollow-Core Fiber Links for AI Data Centers market size was valued at US\$ 273 million in 2025 and is forecast to a readjusted size of US\$ 1152 million by 2032 with a CAGR of 21.4% during review period.

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 is a detailed and comprehensive analysis for global Hollow-Core Fiber Links for AI Data Centers market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hollow-Core Fiber Links for AI Data Centers market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Hollow-Core Fiber Links for AI Data Centers market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Hollow-Core Fiber Links for AI Data Centers market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Hollow-Core Fiber Links for AI Data Centers market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hollow-Core Fiber Links for AI Data Centers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key 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 Lumenity (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.

Market segmentation

Hollow-Core Fiber Links for AI Data Centers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Scale-Up

Scale-Out

Market segment by Product Category

Nested Anti-Resonant HCF

Photonic Bandgap HCF

Conjoined-Tube HCF

Market segment by Network Architecture

Campus Link

Metro Link

Quantum/Sensing Link

Market segment by Application

AI Scale-Across Interconnect

Cloud Inter-DC Network

Low-Latency Financial Network

Quantum Communication

Others

Market segment by players, this report covers

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)

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Hollow-Core Fiber Links for AI Data Centers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Hollow-Core Fiber Links for AI Data Centers, with revenue, gross margin, and global market share of Hollow-Core Fiber Links for AI Data Centers from 2021 to 2026.

Chapter 3, the Hollow-Core Fiber Links for AI Data Centers competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Hollow-Core Fiber Links for AI Data Centers market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Hollow-Core Fiber Links for AI Data Centers.

Chapter 13, to describe Hollow-Core Fiber Links for AI Data Centers research findings and conclusion.

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