

Global Optical Networking Market: Analysis By Data Range (Up to 40 GBPS, 40 GBPS To 100 GBPS and Greater Than 100 GBPS), By Component (Optical Transceivers, Optical Fiber, Optical Circulators, Optical Switches, Optical Amplifiers and Others), By Technology (WDM, SONET and Fiber Channel), By End User (IT and Telecom, Healthcare, Government and Others), By Region Size & Forecast with Impact Analysis of COVID-19 and Forecast up to 2028

July 2023



Global Optical Networking Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

Global Market Analysis

Regional Market Analysis

Impact of COVID-19

Dynamics

Competitive Landscape

Company Profiling

Global Optical Networking Market: Coverage

Scope of the Report

Attributes	Details
Title	Global Optical Networking Market: Analysis By Data Range (Up to 40 GBPS, 40 GBPS To 100 GBPS and Greater Than 100 GBPS), By Component (Optical Transceivers, Optical Fiber, Optical Circulators, Optical Switches, Optical Amplifiers and Others), By Technology (WDM, SONET and Fiber Channel), By End User (IT and Telecom, Healthcare, Government and Others), By Region Size & Forecast with Impact Analysis of COVID-19 and Forecast up to 2028
Coverage	Global and Regional
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2023-2028
Competition in the Market	Concentrated
Key Players	Huawei Investment & Holding Co. Ltd., Fujitsu Limited, Cisco Systems, Inc., Nokia Corporation, ZTE Corporation, Ciena Corporation, Infinera Corporation, NEC Corporation, Adtran. Inc., (ADVA Optical Networking SE), Ribbon Communications Inc., II-VI Incorporated (Coherent Corp.), Viavi Solutions Inc., Corning Incorporated, FiberHome Telecommunication Technologies Co., Ltd.

Global Optical Networking Market: Coverage

Executive Summary

Optical networking is the use of optical fiber and related technologies to send data, phone, and video signals over vast distances. It involves the use of light to convey data over optical fibers, often in the form of laser-generated pulses. Global optical networking market in 2022 was valued at US\$18.93 billion. The market value is expected to reach US\$31.26 billion by 2028, growing at a CAGR of 8.72% during the forecast period of 2023-2028.

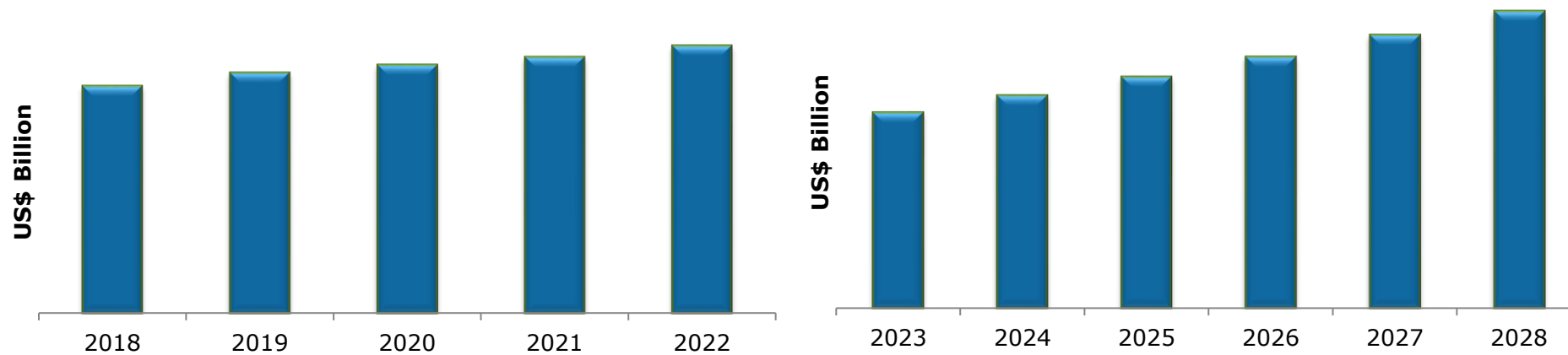
Global optical networking market can be segmented based on Data Range (Up to 40 GBPS, 40 GBPS To 100 GBPS and Greater Than 100 GBPS); Component (Optical Transceivers, Optical Fiber, Optical Circulators, Optical Switches, Optical Amplifiers and Others); Technology (WDM, SONET and Fiber Channel) and End User (IT and Telecom, Healthcare, Government and Others). Up to 40 GBPS segment held majority of the market share in 2022, as when compared to typical copper-based networks, optical networking at speeds of up to 40 GBPS delivers a huge boost in bandwidth. North America is leading global optical networking market by occupying majority of the market share.

The COVID-19 epidemic had a favorable impact on market trends in optical communication and networking. The epidemic caused an extraordinary rise in bandwidth demand because lockdowns and social distance conventions forced individuals all across the world to stay at home. During the pandemic, people engaged in recreational activities online. This resulted in a surge in bandwidth demand in the first quarter of 2020. However, the pandemic disrupted supply chains, resulting in project delays and limited expenditures in new projects.

Global optical networking market has increased in 2022. The projections are made that the market would rise in the next five years i.e. 2023-2028 tremendously. Global optical networking market is expected to increase due to rising internet traffic, rapid expansion in the telecom industry, establishments of data centers, increasing adoption of smartphones, increasing demand for greater bandwidth, augmenting inclination toward wireless optical networks, rise of cloud hyperscale infrastructure, etc. Yet the market faces some challenges such as high installation cost, rise in the network complexity, security concerns, etc. Moreover, the market growth would succeed to various market trends like, increasing adoption of internet of things (IoT), rising adoption of 5G networks, technological advancements, consolidation, etc.

Optical Networking Market: Global Analysis

Global Optical Networking Market by Value

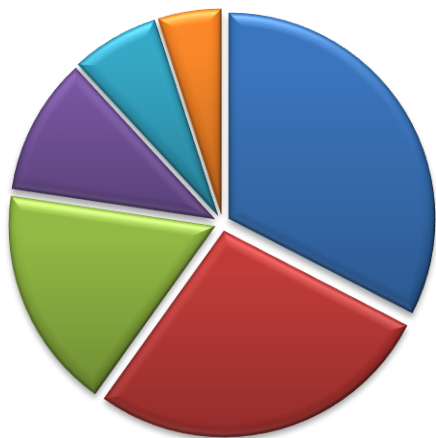


CAGR	
2018-2022	xx%
2023-2028	xx%

Global Optical Networking market valued at US\$.... billion in 2022, increased as compared to US\$... billion in 2021. Global Optical Networking market is anticipated to reach up to US\$... billion by 2028, at a CAGR of%, from US\$... billion in 2023.

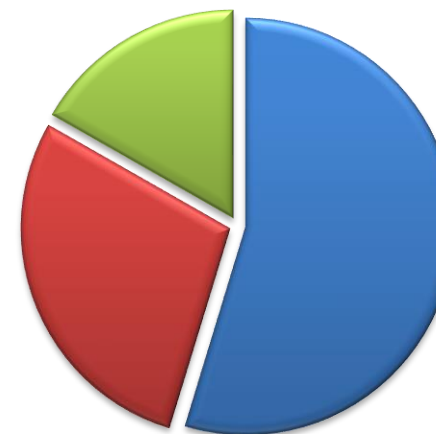
Optical Networking Market: Global Analysis

Global Optical Networking Market by Component; 2022



Components	Share
Optical Transceivers	xx%
Optical Fiber	xx%
Optical Circulators	xx%
Optical Switches	xx%
Optical Amplifiers	xx%
Others	xx%

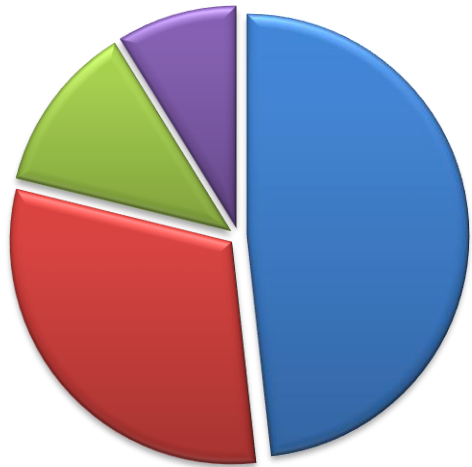
Global Optical Networking Market by Data Range; 2022



Data Range	Share
Up to 40 GBPS	xx%
40 GBPS to 100 GBPS	xx%
Greater than 100 GBPS	xx%

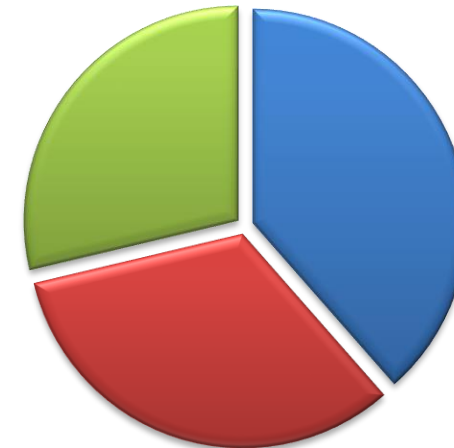
Optical Networking Market: Global Analysis

Global Optical Networking Market by End User; 2022



End User	Share
IT and Telecom	xx%
Healthcare	xx%
Government	xx%
Other end users	xx%

Global Optical Networking Market by Technology; 2022



Technology	Share
WDM	xx%
SONET	xx%
Fiber Channel	xx%

Optical Networking Market: Global Analysis

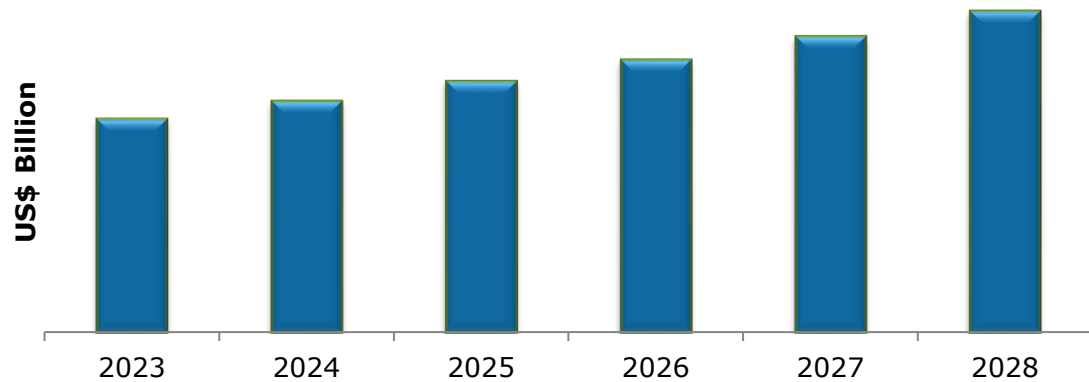
Global Optical Networking Market by Region; 2022



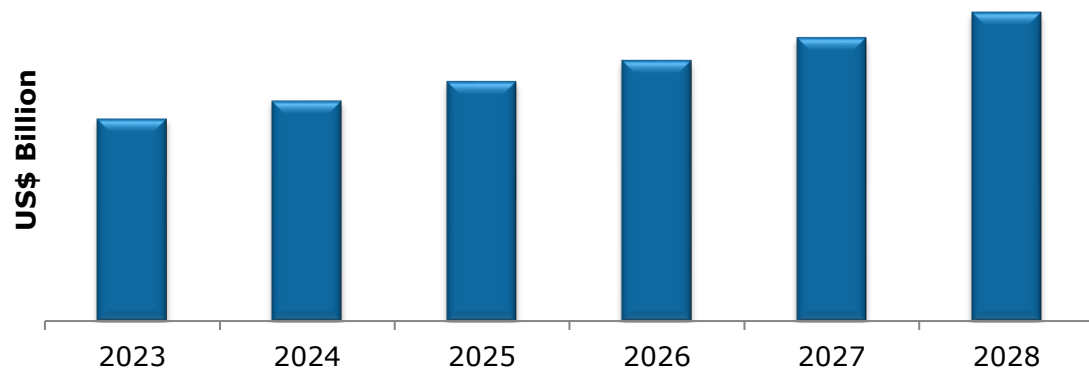
Regions	Share
North America	xx%
Asia Pacific	xx%
Europe	xx%
Rest of the World	xx%

Global Optical Networking Market: Data Range Analysis

Global Up to 40 GBPS Optical Networking Market by Value



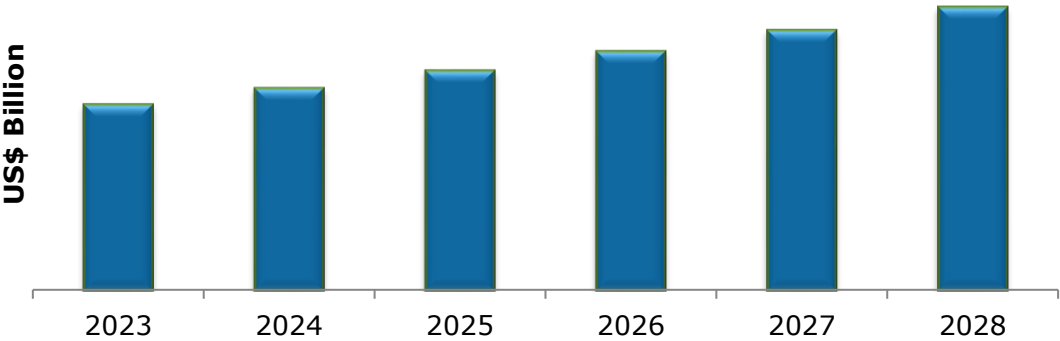
Global 40 GBPS to 100 GBPS Optical Networking Market by Value



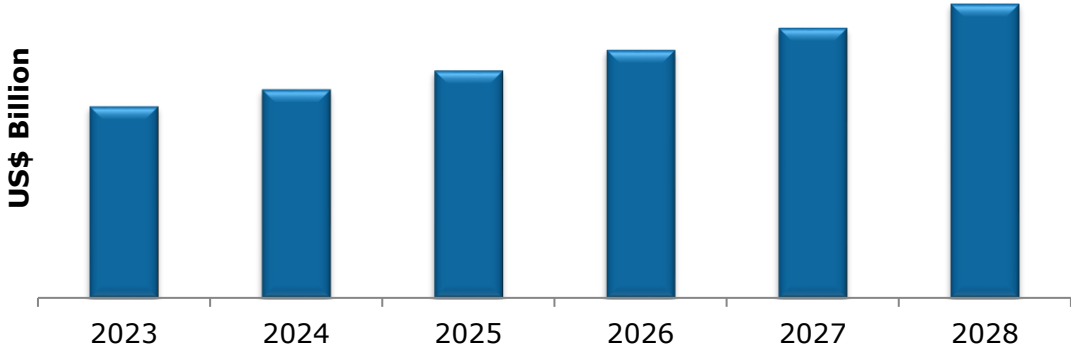
Data Range	CAGR (2018-2022)	CAGR (2023-2028)
Up to 40 GBPS	xx%	xx%
40 GBPS to 100 GBPS	xx%	xx%
Greater than 100 GBPS	xx%	xx%

Global Optical Networking Market: Components Analysis

Global Optical Transceivers Networking Market by Value



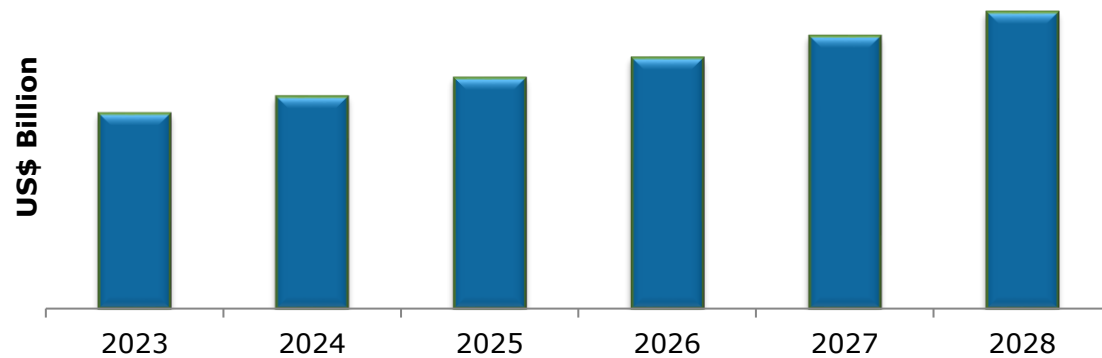
Global Optical Fiber Networking Market by Value



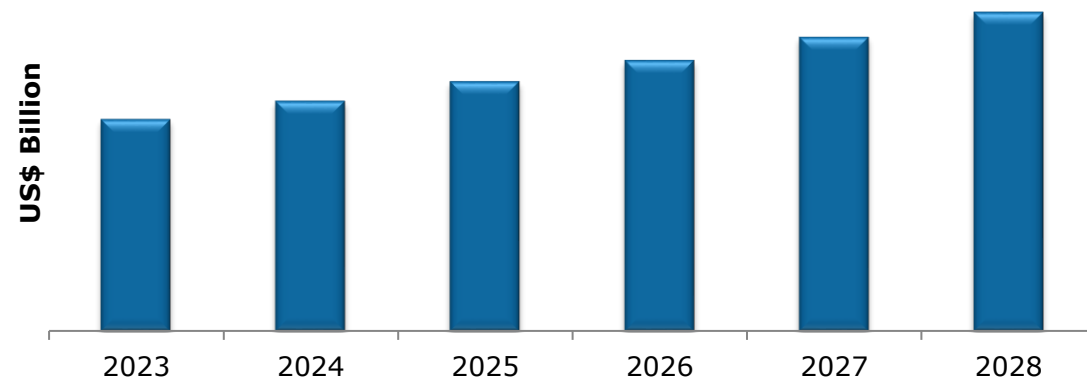
Components	CAGR (2018-2022)	CAGR (2023-2028)
Optical Transceivers	xx%	xx%
Optical Fiber	xx%	xx%
Optical Circulators	xx%	xx%
Optical Switches	xx%	xx%
Optical Amplifiers	xx%	xx%
Others	xx%	xx%

Global Optical Networking Market: Technology Analysis

Global WDM Optical Networking Market by Value



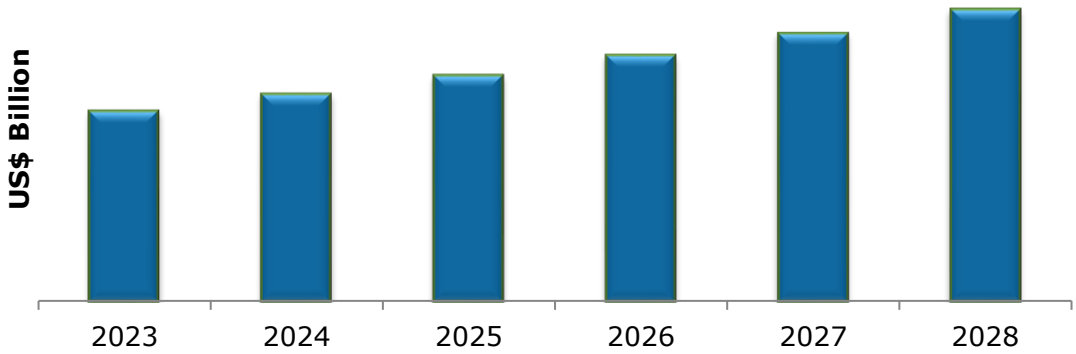
Global SONET Optical Networking Market by Value



Technology	CAGR (2018-2022)	CAGR (2023-2028)
WDM	xx%	xx%
SONET	xx%	xx%
Fiber Channel	xx%	xx%

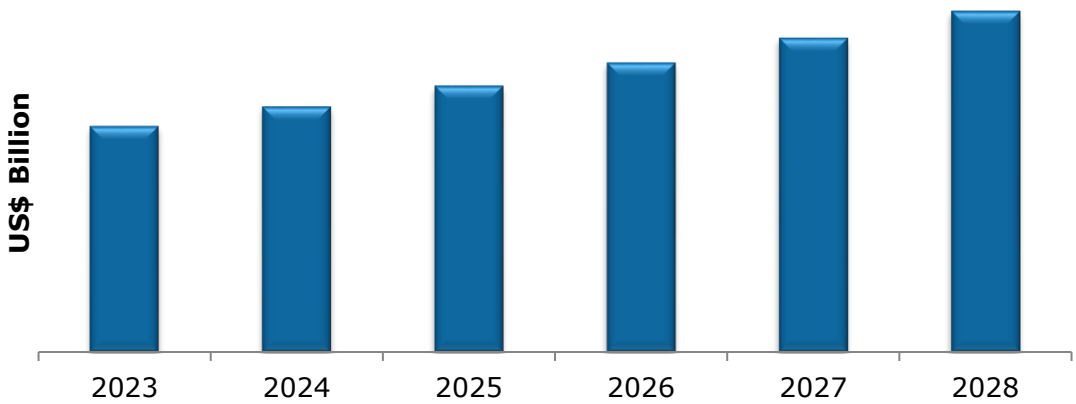
Global Optical Networking Market: End User Analysis

Global IT and Telecom Optical Networking Market by Value



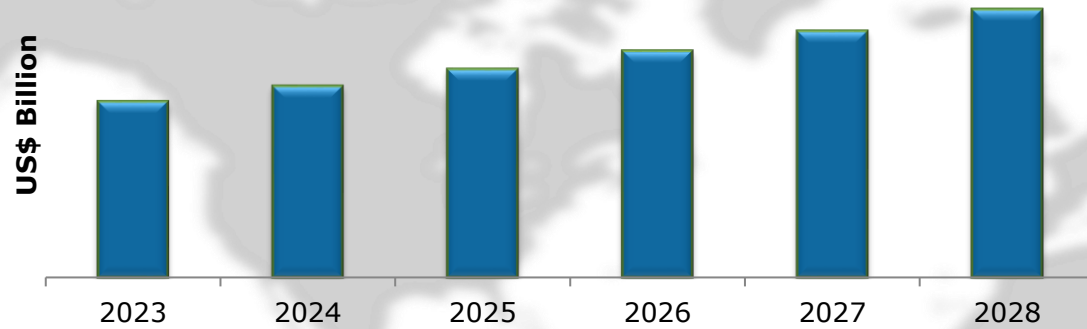
End Users	CAGR (2018-2022)	CAGR (2023-2028)
IT and Telecom	xx%	xx%
Healthcare	xx%	xx%
Government	xx%	xx%
Other end users	xx%	xx%

Global Healthcare Optical Networking Market by Value

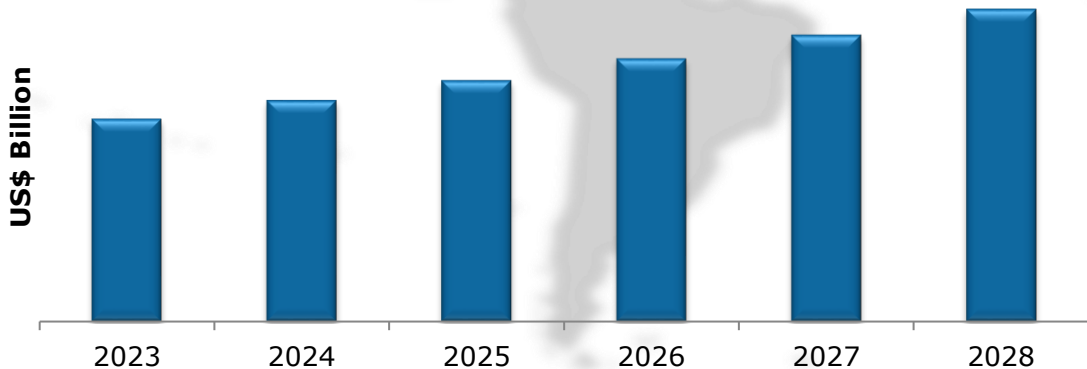


Global Optical Networking Market: Regional Analysis

North America Optical Networking Market by Value



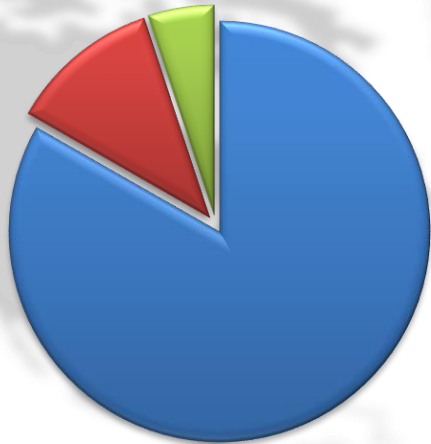
Asia Pacific Optical Networking Market by Value



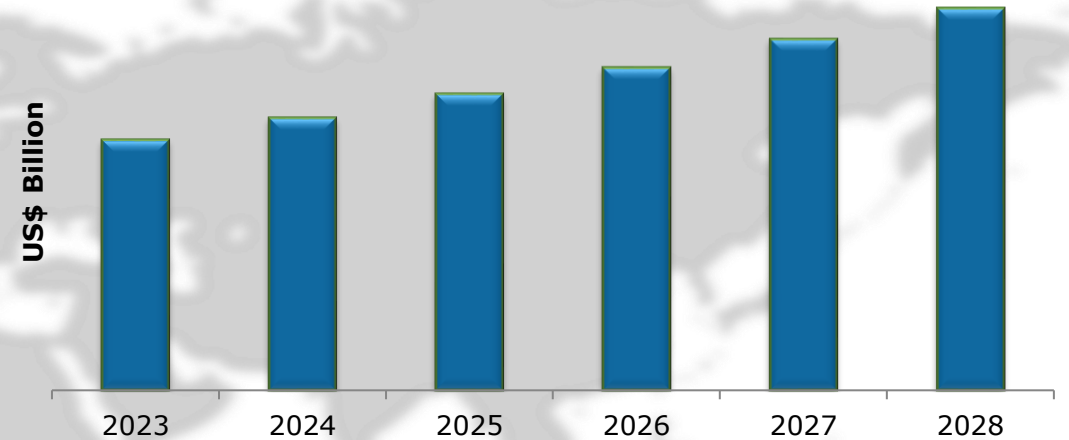
Regions	CAGR (2018-2022)	CAGR (2023-2028)
North America	xx%	xx%
Asia Pacific	xx%	xx%
Europe	xx%	xx%
Rest of the World	xx%	xx%

North America Optical Networking Market: Analysis

North America Optical Networking Market by Region; 2022



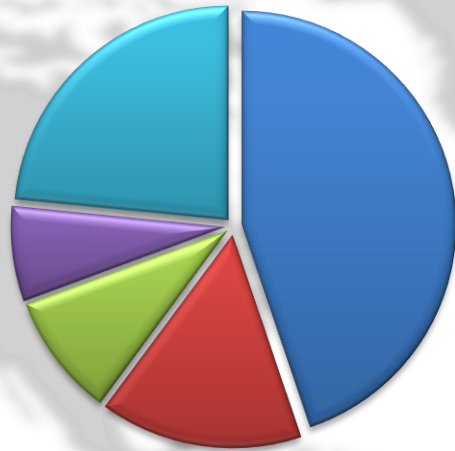
The US Optical Networking Market by Value



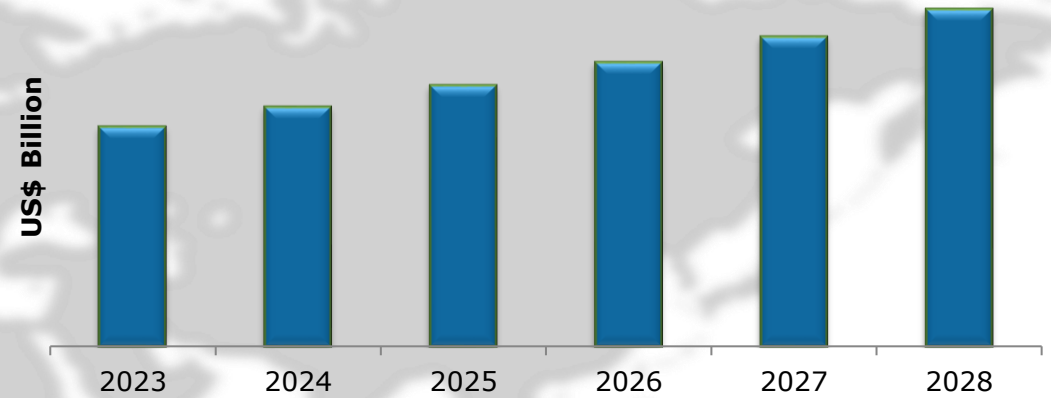
Region	Share	CAGR (2018-2022)	CAGR (2023-2028)
The US	xx%	xx%	xx%
Canada	xx%	xx%	xx%
Mexico	xx%	xx%	xx%

Asia Pacific Optical Networking Market: Analysis

Asia Pacific Optical Networking Market by Region; 2022



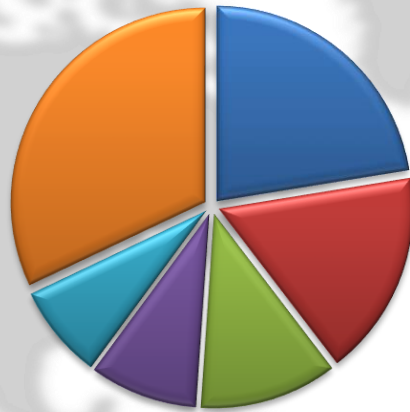
China Optical Networking Market by Value



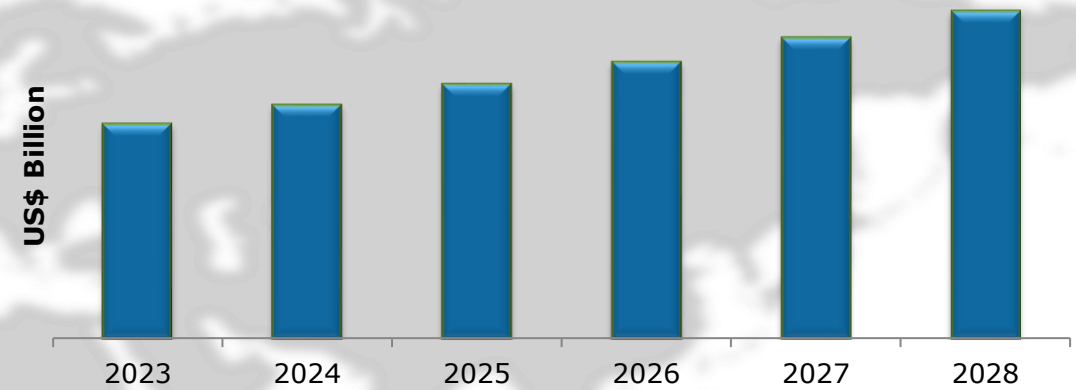
Region	Share	CAGR (2018-2022)	CAGR (2023-2028)
China	xx%	xx%	xx%
Japan	xx%	xx%	xx%
India	xx%	xx%	xx%
South Korea	xx%	xx%	xx%
Rest of Asia Pacific	xx%	xx%	xx%

Europe Optical Networking Market: Analysis

Europe Optical Networking Market by Region; 2022

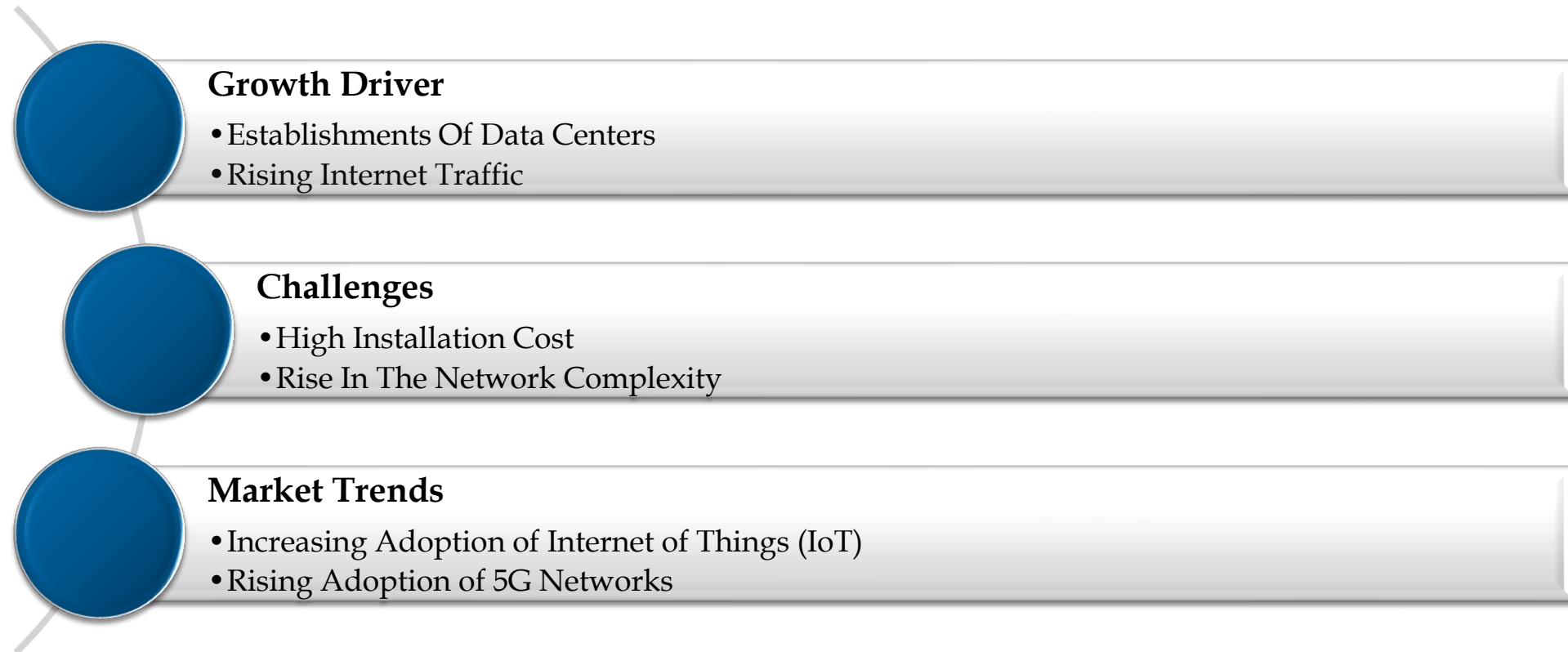


Germany Optical Networking Market by Value



Region	Share	CAGR (2018-2022)	CAGR (2023-2028)
Germany	xx%	xx%	xx%
UK	xx%	xx%	xx%
Spain	xx%	xx%	xx%
France	xx%	xx%	xx%
Italy	xx%	xx%	xx%
Rest of Europe	xx%	xx%	xx%

Global Optical Networking Market: Dynamics



Global Optical Networking Market: Competitive Landscape

Players Profiled

- Huawei Investment & Holding Co. Ltd.,
- Fujitsu Limited,
- Cisco Systems, Inc.,
- Nokia Corporation,
- ZTE Corporation,
- Ciena Corporation,
- Infinera Corporation,
- NEC Corporation,
- Adtran. Inc., (ADVA Optical Networking SE),
- Ribbon Communications Inc.,
- II-VI Incorporated (Coherent Corp.),
- Viavi Solutions Inc.,
- Corning Incorporated,
- FiberHome Telecommunication Technologies Co., Ltd.

Global Optical Networking Players by Market Share; 2022

