

Optical Communication and Networking Equipment Market by Component (Fiber, Transceiver, and Switch), Technology (WDM, Fiber Channel), Application (Telecom, Data Center, and Enterprise), Data Rate, Vertical and Region (2022-2027)

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Abstracts

The global optical communication and networking equipment market was estimated at USD 24.2 billion in 2022 and is projected to reach USD 36.6 billion by 2027, growing at a CAGR of 8.6% from 2022 to 2027. Growing adoption of data centers and the deployment of VOIP, LTE, and 5G networks are the major driving factors for the growth of the optical communication and networking equipment market.

“Up to 40 Gbps: The fastest-growing segment of the optical communication and networking equipment market. “

Optical communication and networking equipment with up to 40 Gbps data rate accounted for the largest market share of ~49% in 2021. As the network capacity increases, the element management system (EMS) requires higher reliability. The data rate of up to 40 Gbps provides reliable monitoring technology for large-capacity networks. Moreover, the market for optical communication and networking equipment with greater than 100 Gbps data rate is projected to grow with the highest CAGR of 9.8% during the forecast period. With the rapid development of 5G and high-performance services brought by cloud networks, the demand for higher bandwidth devices with a data rate of greater than 100 Gbps is expected to grow in the near future.

“Data Center: The highest growing application in optical communication and networking market.”

The data center application is expected to dominate the market throughout the forecast period. The application is also expected to grow at the highest CAGR during the forecast period. Data centers are used for commercial purposes of OTT platforms, which are in constant demand and are rapidly increasing. The rise in the number of OTT platforms (Netflix, HBO, Disney, and Amazon Prime) over the year are expected to propel the data center market in the future.

“Cloud Segment: The fastest-growing vertical in optical communication and networking equipment market during the forecast period.”

Cloud segment of the optical communication and networking equipment market is projected to grow at the highest CAGR during the forecast period. Cloud computing has become an essential part of the business landscape. In this regard, several companies are highly adopting complex computing solutions. The ever-growing cloud of digital devices increases the demand for data storage space, transmission speed, and flexibility. These factors are fuelling the adoption of optical communication and networking equipment in cloud computing, which supports high-data transmission and offers high switching speed and large data storage.

“The Americas: The largest region in the optical communication and networking equipment market in 2021.”

The Americas accounted for the largest share of ~40% of the optical communication and networking equipment market in 2021. The Americas has emerged as a major data center and cloud computing hub. Thus, it is the largest consumer of optical communication and networking equipment market. Factors such as the robust presence of major companies in the region; high demand for data communication; increased use of communication devices, such as smartphones, tablets, and VoIP equipment; as well as the growing market for wearable devices and increasing deployment of data centers drive the growth of the optical communication and networking equipment market in this region. Further, high defence spending and the presence of numerous important market players in the US are the key factors supporting the expansion of the market in the region.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type— Tier 1- 50%, Tier 2- 30% Tier 3 - 20%

By Designation— C level - 30%, Managers - 30%, Other Level - 40%

By Region— Americas - 10%, Asia Pacific - 40%, Europe - 20%, RoW - 30%,

The largest consumer of optical communication and networking equipment market is dominated by a few globally established players such as Huawei Technologies Co., Ltd. (China), Cisco Systems, Inc. (US), Ciena Corporation (US), Nokia (Finland), II-VI Incorporated (US),

The study includes an in-depth competitive analysis of these key players in the largest consumer of optical communication and networking equipment market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the largest consumer of optical communication and networking equipment market and forecasts its size, by volume and value, based on region (Asia Pacific, Europe, North America, and RoW), by component (Optical Fibers, Optical Transceivers, Optical Amplifiers, Optical Switches, Optical Splitters, and Optical Circulators), technology (SONET/SDH, WDM, CWDM, DWDM, and Fiber Channel), application (TELECOM, Data Center, and Enterprise), data rate (Up To 40 GBPS, Greater Than 40 Gbps To 100 Gbps, Greater Than 100 Gbps), vertical (BFSI, Government, Healthcare, Cloud, Energy & Utilities, and Others).

The report also provides a comprehensive review of market drivers, restraints, opportunities, and challenges in the optical communication and networking equipment market. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

Key Benefits of Buying the Report:

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the optical

communication and networking equipment market and provides them information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION AND SCOPE

1.2.1 INCLUSIONS AND EXCLUSIONS

1.2.2 MARKETS COVERED

FIGURE 1 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET SEGMENTATION

1.3 YEARS CONSIDERED

1.4 CURRENCY

1.5 PACKAGE SIZE

1.6 LIMITATIONS

1.7 MARKET STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 List of major secondary sources

2.1.1.2 Secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Key industry insights

2.1.2.3 Breakdown of primaries

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.2.3 MARKET SHARE ESTIMATION

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 5 MARKET BREAKDOWN AND DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

FIGURE 6 ASSUMPTIONS OF RESEARCH STUDY

3 EXECUTIVE SUMMARY

3.1 REALISTIC SCENARIO

3.2 OPTIMISTIC SCENARIO

3.3 PESSIMISTIC SCENARIO

FIGURE 7 GROWTH PROJECTIONS FOR OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN REALISTIC, OPTIMISTIC, AND PESSIMISTIC SCENARIOS

FIGURE 8 MARKET FOR OPTICAL TRANSCEIVER COMPONENT-BASED OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 9 DATA CENTER APPLICATION TO HOLD LARGEST MARKET SHARE IN 2027

FIGURE 10 CLOUD SEGMENT TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET DURING FORECAST PERIOD

FIGURE 11 ASIA PACIFIC LIKELY TO BE FASTEST-GROWING REGION IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET DURING

2022–2027

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FIGURE 12 RISING ADOPTION OF CLOUD-BASED AND VIRTUALIZATION SERVICES DRIVES OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET GROWTH

4.2 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY APPLICATION

FIGURE 13 DATA CENTER APPLICATION EXPECTED TO DOMINATE OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET DURING FORECAST PERIOD

4.3 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY COUNTRY AND COMPONENT

FIGURE 14 CHINA AND OPTICAL SWITCHES CAPTURED LARGEST SHARE OF OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY COUNTRY AND COMPONENT, RESPECTIVELY, IN 2021

4.4 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY TECHNOLOGY

FIGURE 15 WDM TECHNOLOGY TO HOLD LARGEST SHARE OF OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET DURING FORECAST PERIOD

4.5 COUNTRY-WISE ANALYSIS OF OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FIGURE 16 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN SOUTH KOREA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 17 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 18 MARKET GROWTH PROJECTIONS CONSIDERING DRIVERS

FIGURE 19 MARKET GROWTH PROJECTIONS CONSIDERING OPPORTUNITIES

FIGURE 20 MARKET GROWTH PROJECTIONS CONSIDERING CHALLENGES AND RESTRAINTS

5.2.1 DRIVERS

5.2.1.1 Rise in demand for compact and energy-efficient transceivers

5.2.1.2 Rising adoption of cloud-based and virtualization services globally

FIGURE 21 SAAS: MOST HIGHLY DEPLOYED CLOUD SERVICE MODEL GLOBALLY, 2016–2021

FIGURE 22 GLOBAL IP TRAFFIC, 2017–2022

FIGURE 23 GLOBAL MOBILE DATA TRAFFIC FROM 2017 TO 2022

5.2.1.3 Growing number of data centers

FIGURE 24 IP TRAFFIC GROWTH IN GLOBAL DATA CENTERS

FIGURE 25 HYPERSCALE DATA CENTER GROWTH: REGIONAL VIEW

5.2.2 RESTRAINTS

5.2.2.1 High initial investment

5.2.2.2 Increased network complexity

5.2.3 OPPORTUNITIES

5.2.3.1 Expansion of telecom infrastructure in developing economies

5.2.3.2 Deployment of VOIP, LTE, and 5G networks

FIGURE 26 WIRELESS NETWORK CONNECTIONS IN NORTH AMERICA, BY TECHNOLOGY

FIGURE 27 5G CONNECTION FORECAST, BY 2025

5.2.3.3 Expansion of networks in developing countries

FIGURE 28 MOBILE SUBSCRIBER PENETRATION RATE, BY REGION

5.2.3.4 Adoption of IoT

FIGURE 29 CONNECTED DEVICES, 2018–2023

5.2.4 CHALLENGES

5.2.4.1 Ever changing customer demands for portable device and high speed

5.2.4.2 Vulnerability of optical networks to hacking

5.2.4.3 Susceptibility of optical fibers to physical damage and transmission losses

5.3 VALUE CHAIN ANALYSIS

FIGURE 30 VALUE CHAIN ANALYSIS: MAJOR VALUE IS ADDED BY COMPONENT MANUFACTURERS AND SYSTEM INTEGRATORS

6 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY COMPONENT

6.1 INTRODUCTION

FIGURE 31 OPTICAL TRANSCEIVER SEGMENT TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET DURING FORECAST PERIOD

TABLE 1 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 2 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 3 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY COMPONENT, 2018–2021 (SHIPMENT UNITS)

TABLE 4 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY COMPONENT, 2022–2027 (SHIPMENT UNITS)

6.2 OPTICAL FIBER

6.2.1 SINGLE-MODE FIBERS

6.2.1.1 Single-mode fibers are used for long-distance and high-bandwidth applications

6.2.2 MULTI-MODE FIBERS

6.2.2.1 Multi-mode fibers are used for building applications

TABLE 5 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL FIBERS, BY MODE, 2018–2021 (USD MILLION)

TABLE 6 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL FIBERS, BY MODE, 2022–2027 (USD MILLION)

FIGURE 32 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL

FIBERS DURING FORECAST PERIOD

TABLE 7 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL FIBERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 8 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL FIBERS, BY REGION, 2022–2027 (USD MILLION)

TABLE 9 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL FIBERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 10 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL FIBERS, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 11 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR SINGLE-MODE OPTICAL FIBERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 12 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR SINGLE-MODE OPTICAL FIBERS, BY REGION, 2022–2027 (USD MILLION)

TABLE 13 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR SINGLE-MODE OPTICAL FIBERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 14 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR SINGLE-MODE OPTICAL FIBERS, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 15 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR MULTI-MODE OPTICAL FIBERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 16 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR MULTI-MODE OPTICAL FIBERS, BY REGION, 2022–2027 (USD MILLION)

FIGURE 33 ENTERPRISE APPLICATION TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR MULTI-MODE OPTICAL FIBERS DURING FORECAST PERIOD

TABLE 17 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR MULTI-MODE OPTICAL FIBERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 18 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR MULTI-MODE OPTICAL FIBERS, BY APPLICATION, 2022–2027 (USD MILLION)

6.3 OPTICAL TRANSCEIVER

6.3.1 SFF AND SFP

6.3.1.1 SFF and SFP form factors are known for manufacturing interconnects for telecom and datacom sectors

6.3.2 SFP+ AND SFP28

6.3.2.1 Market for SFP+ AND SFP28 form factors to grow at highest CAGR during forecast period

6.3.3 QSFP, QSFP+, QSFP14, AND QSFP28

6.3.3.1 QSFP, QSFP+, QSFP14, AND QSFP28 form factors to hold large market

share

6.3.4 CFP, CFP2, AND CFP4

6.3.4.1 CFP, CFP2, and CFP4 to experience rapid growth during forecast period

6.3.5 XFP

6.3.5.1 XFP form factor designed mostly in synchronous optical networking (SONET)

6.3.6 CXP

6.3.6.1 CXP form factor adopted for high-density signal transmission in industrial applications

TABLE 19 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL TRANSCEIVERS, BY FORM FACTOR, 2018–2021 (USD MILLION)

TABLE 20 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL TRANSCEIVERS, BY FORM FACTOR, 2022–2027 (USD MILLION)

TABLE 21 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL TRANSCEIVERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 22 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL TRANSCEIVERS, BY REGION, 2022–2027 (USD MILLION)

TABLE 23 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL TRANSCEIVERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 24 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL TRANSCEIVERS, BY APPLICATION, 2022–2027 (USD MILLION)

6.4 OPTICAL AMPLIFIER

6.4.1 ERBIUM-DOPED FIBER AMPLIFIERS

6.4.1.1 Erbium-doped amplifiers are extensively used in optical communication networks

6.4.2 FIBER RAMAN AMPLIFIERS

6.4.2.1 Fiber Raman amplifiers are deployed in long-haul and ultra-long-haul transmission systems

6.4.3 SEMICONDUCTOR OPTICAL AMPLIFIERS

6.4.3.1 Semiconductor optical amplifiers amplify optical signals at varying wavelengths

FIGURE 34 ASIA PACIFIC TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL AMPLIFIERS DURING FORECAST PERIOD

TABLE 25 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL AMPLIFIERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 26 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL AMPLIFIERS, BY REGION, 2022–2027 (USD MILLION)

TABLE 27 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL AMPLIFIERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 28 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL AMPLIFIERS, BY APPLICATION, 2022–2027 (USD MILLION)

6.5 OPTICAL SWITCH

6.5.1 OPTICAL SWITCHES ALLOW PHOTONIC SIGNALS TO BE MANAGED AND SWITCHED WITHOUT CONVERTING THEM INTO ELECTRONIC SIGNALS

TABLE 29 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SWITCHES, BY REGION, 2018–2021 (USD MILLION)

TABLE 30 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SWITCHES, BY REGION, 2022–2027 (USD MILLION)

TABLE 31 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SWITCHES, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 32 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SWITCHES, BY APPLICATION, 2022–2027 (USD MILLION)

6.6 OPTICAL SPLITTER

6.6.1 OPTICAL SPLITTERS ARE INTEGRAL COMPONENT OF PASSIVE OPTICAL NETWORKS

TABLE 33 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SPLITTERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 34 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SPLITTERS, BY REGION, 2022–2027 (USD MILLION)

FIGURE 35 DATA CENTER APPLICATION TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SPLITTERS DURING FORECAST PERIOD

TABLE 35 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SPLITTERS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 36 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL SPLITTERS, BY APPLICATION, 2022–2027 (USD MILLION)

6.7 OPTICAL CIRCULATOR

6.7.1 OPTICAL CIRCULATORS ARE USED TO DIRECT OPTICAL SIGNALS FROM ONE PORT TO ANOTHER

TABLE 37 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL CIRCULATORS, BY REGION, 2018–2021 (USD MILLION)

TABLE 38 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL CIRCULATORS, BY REGION, 2022–2027 (USD MILLION)

TABLE 39 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OPTICAL CIRCULATORS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 40 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR OPTICAL CIRCULATORS, BY APPLICATION, 2022–2027 (USD MILLION)

6.8 OTHERS

TABLE 41 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHER COMPONENTS, BY REGION, 2018–2021 (USD MILLION)

TABLE 42 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHER COMPONENTS, BY REGION, 2022–2027 (USD MILLION)

TABLE 43 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHER COMPONENTS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 44 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHER COMPONENTS, BY APPLICATION, 2022–2027 (USD MILLION)

7 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

FIGURE 36 WDM TECHNOLOGY TO HOLD LARGEST SIZE OF OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN 2027

TABLE 45 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 46 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY TECHNOLOGY, 2022–2027 (USD MILLION)

7.2 SONET/SDH

7.2.1 SONET AND SDH ARE WIDELY ADOPTED TRANSMISSION TECHNOLOGIES BY TELECOM CARRIERS

TABLE 47 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR SONET TECHNOLOGY, BY REGION, 2018–2021 (USD MILLION)

TABLE 48 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR SONET TECHNOLOGY, BY REGION, 2022–2027 (USD MILLION)

7.3 WDM

7.3.1 WDM TECHNOLOGY TO DOMINATE OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

7.3.2 CWDM

7.3.3 DWDM

TABLE 49 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR WDM TECHNOLOGY, BY TYPE, 2018–2021 (USD MILLION)

TABLE 50 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR WDM TECHNOLOGY, BY TYPE, 2022–2027 (USD MILLION)

TABLE 51 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR WDM TECHNOLOGY, BY REGION, 2018–2021 (USD MILLION)

TABLE 52 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR WDM TECHNOLOGY, BY REGION, 2022–2027 (USD MILLION)

TABLE 53 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR CWDM TECHNOLOGY, BY REGION, 2018–2021 (USD MILLION)

TABLE 54 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR CWDM TECHNOLOGY, BY REGION, 2022–2027 (USD MILLION)

TABLE 55 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DWDM TECHNOLOGY, BY REGION, 2018–2021 (USD MILLION)

TABLE 56 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DWDM TECHNOLOGY, BY REGION, 2022–2027 (USD MILLION)

7.4 FIBER CHANNEL

7.4.1 MARKET FOR FIBER CHANNEL TECHNOLOGY TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 57 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR FIBER CHANNEL TECHNOLOGY, BY REGION, 2018–2021 (USD MILLION)

TABLE 58 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR FIBER CHANNEL TECHNOLOGY, BY REGION, 2022–2027 (USD MILLION)

8 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 37 DATA CENTER APPLICATION TO REGISTER HIGHEST CAGR IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET DURING FORECAST PERIOD

TABLE 59 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 60 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

8.2 TELECOM

8.2.1 REQUIREMENT FOR HIGH-SPEED DATA TRANSMISSION TO DRIVE DEMAND FOR NETWORKING EQUIPMENT IN TELECOM APPLICATIONS

TABLE 61 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR TELECOM APPLICATIONS, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 62 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR TELECOM APPLICATIONS, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 63 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR TELECOM APPLICATIONS, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 64 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR TELECOM APPLICATIONS, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

TABLE 65 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR TELECOM APPLICATIONS, BY REGION, 2018–2021 (USD MILLION)

TABLE 66 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR TELECOM APPLICATIONS, BY REGION, 2022–2027 (USD MILLION)

8.3 DATA CENTER

8.3.1 RISE IN NETWORK TRAFFIC AND CLOUD COMPUTING SERVICES TO ACCELERATE DEMAND FOR NETWORKING EQUIPMENT IN DATA CENTER APPLICATIONS

TABLE 67 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DATA CENTER APPLICATIONS, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 68 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DATA CENTER APPLICATIONS, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 69 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DATA CENTER APPLICATIONS, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 70 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DATA CENTER APPLICATIONS, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

TABLE 71 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DATA CENTER APPLICATIONS, BY REGION, 2018–2021 (USD MILLION)

TABLE 72 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR DATA CENTER APPLICATIONS, BY REGION, 2022–2027 (USD MILLION)

8.4 ENTERPRISE

8.4.1 GROWING DEMAND FOR ENTERPRISE-BASED SOLUTIONS BOOST GROWTH OF MARKET FOR NETWORKING EQUIPMENT

TABLE 73 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR ENTERPRISE APPLICATIONS, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 74 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR ENTERPRISE APPLICATIONS, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 75 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR ENTERPRISE APPLICATIONS, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 76 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR ENTERPRISE APPLICATIONS, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

TABLE 77 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR ENTERPRISE APPLICATIONS, BY REGION, 2018–2021 (USD MILLION)
TABLE 78 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR ENTERPRISE APPLICATIONS, BY REGION, 2022–2027 (USD MILLION)

9 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY DATA RATE

9.1 INTRODUCTION

FIGURE 38 UP TO 40 GBPS OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT TO HOLD LARGEST MARKET SIZE IN 2027

TABLE 79 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 80 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY DATA RATE, 2022–2027 (USD MILLION)

9.2 UP TO 40 GBPS

9.2.1 DATA CENTER INTERCONNECT, INTERNET SERVICE PROVIDERS, AND ENTERPRISE NETWORKS TO DRIVE DEMAND FOR OPTICAL NETWORKING DEVICES WITH DATA RATES OF UP TO 40 GBPS

TABLE 81 UP TO 40 GBPS OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 82 UP TO 40 GBPS OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2022–2027 (USD MILLION)

9.3 GREATER THAN 40 GBPS TO 100 GBPS

9.3.1 DATA CENTERS, AND GOVERNMENT AND FINANCIAL INSTITUTIONS TO DRIVE DEMAND FOR OPTICAL NETWORKING DEVICES WITH DATA RATES OF GREATER THAN 40 GBPS TO 100 GBPS

TABLE 83 GREATER THAN 40 GBPS TO 100 GBPS OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 84 GREATER THAN 40 GBPS TO 100 GBPS OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2022–2027 (USD MILLION)

9.4 GREATER THAN 100 GBPS

9.4.1 CLOUD COMPUTING, METRO, AND LONG-HAUL NETWORK APPLICATIONS TO FUEL DEMAND FOR OPTICAL NETWORKING DEVICES WITH DATA RATE OF GREATER THAN 100 GBPS

TABLE 85 GREATER THAN 100 GBPS OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 86 GREATER THAN 100 GBPS OPTICAL COMMUNICATION AND

NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2022–2027 (USD MILLION)

10 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL

10.1 INTRODUCTION

FIGURE 39 BFSI VERTICAL TO HOLD LARGEST SIZE OF OPTICAL

COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN 2027

TABLE 87 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2018–2021 (USD MILLION)

TABLE 88 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY VERTICAL, 2022–2027 (USD MILLION)

10.2 BFSI

10.2.1 INCREASING DEMAND FOR DIGITAL BANKING SERVICES TO DRIVE DEMAND FOR OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT

TABLE 89 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR BFSI, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 90 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR BFSI, BY DATA RATE, 2022–2027 (USD MILLION)

TABLE 91 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR BFSI, BY REGION, 2018–2021 (USD MILLION)

TABLE 92 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR BFSI, BY REGION, 2022–2027 (USD MILLION)

TABLE 93 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS FOR BFSI, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 94 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS FOR BFSI, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 95 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE FOR BFSI, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 96 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE FOR BFSI, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 97 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN

ASIA PACIFIC FOR BFSI, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 98 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN

ASIA PACIFIC FOR BFSI, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 99 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN

ROW FOR BFSI, BY REGION, 2018–2021 (USD MILLION)

TABLE 100 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN

ROW FOR BFSI, BY REGION, 2022–2027 (USD MILLION)

10.3 GOVERNMENT

10.3.1 INCREASING INVESTMENTS IN NETWORKING INFRASTRUCTURE
BOOSTS DEMAND FOR OPTICAL COMMUNICATION AND NETWORKING
EQUIPMENT

TABLE 101 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR GOVERNMENT, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 102 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR GOVERNMENT, BY DATA RATE, 2022–2027 (USD MILLION)

TABLE 103 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR GOVERNMENT, BY REGION, 2018–2021 (USD MILLION)

TABLE 104 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR GOVERNMENT, BY REGION, 2022–2027 (USD MILLION)

TABLE 105 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN AMERICAS FOR GOVERNMENT, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 106 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN AMERICAS FOR GOVERNMENT, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 107 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE FOR GOVERNMENT, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 108 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE FOR GOVERNMENT, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 109 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ASIA PACIFIC FOR GOVERNMENT, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 110 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ASIA PACIFIC FOR GOVERNMENT, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 111 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW FOR GOVERNMENT, BY REGION, 2018–2021 (USD MILLION)

TABLE 112 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW FOR GOVERNMENT, BY REGION, 2022–2027 (USD MILLION)

10.4 HEALTHCARE

10.4.1 INCREASING DEMAND FOR DIGITAL HEALTHCARE SERVICES TO
PROPEL OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
GROWTH

TABLE 113 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR HEALTHCARE, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 114 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR HEALTHCARE, BY DATA RATE, 2022–2027 (USD MILLION)

TABLE 115 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR HEALTHCARE, BY REGION, 2018–2021 (USD MILLION)

TABLE 116 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR HEALTHCARE, BY REGION, 2022–2027 (USD MILLION)

TABLE 117 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS FOR HEALTHCARE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 118 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS FOR HEALTHCARE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 119 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN EUROPE FOR HEALTHCARE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 120 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN EUROPE FOR HEALTHCARE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 121 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN

ASIA PACIFIC FOR HEALTHCARE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 122 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN

ASIA PACIFIC FOR HEALTHCARE, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 123 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN

ROW FOR HEALTHCARE, BY REGION, 2018–2021 (USD MILLION)

TABLE 124 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN

ROW FOR HEALTHCARE, BY REGION, 2022–2027 (USD MILLION)

10.5 CLOUD

10.5.1 INCREASING DEMAND FOR CLOUD-BASED DATA CENTRES TO FOSTER
MARKET GROWTH

TABLE 125 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR CLOUD, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 126 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR CLOUD, BY DATA RATE, 2022–2027(USD MILLION)

TABLE 127 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR CLOUD, BY REGION, 2018–2021 (USD MILLION)

TABLE 128 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

FOR CLOUD, BY REGION, 2022–2027 (USD MILLION)

TABLE 129 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS FOR CLOUD, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 130 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS FOR CLOUD, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 131 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN EUROPE FOR CLOUD, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 132 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN EUROPE FOR CLOUD, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 133 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN

ASIA PACIFIC FOR CLOUD, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 134 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN

ASIA PACIFIC FOR CLOUD, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 135 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN

ROW FOR CLOUD, BY REGION, 2018–2021 (USD MILLION)

TABLE 136 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ROW FOR CLOUD, BY REGION, 2022–2027 (USD MILLION)

10.6 ENERGY & UTILITIES

10.6.1 RISING DEPLOYMENT OF SMART GRIDS TO AUGMENT OPTICAL
COMMUNICATION AND NETWORKING EQUIPMENT MARKET GROWTH

TABLE 137 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR ENERGY & UTILITIES, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 138 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR ENERGY & UTILITIES, BY DATA RATE, 2022–2027 (USD MILLION)

TABLE 139 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR ENERGY & UTILITIES, BY REGION, 2018–2021 (USD MILLION)

TABLE 140 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
FOR ENERGY & UTILITIES, BY REGION, 2022–2027 (USD MILLION)

TABLE 141 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN AMERICAS FOR ENERGY & UTILITIES, BY COUNTRY, 2018–2021 (USD
MILLION)

TABLE 142 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN AMERICAS FOR ENERGY & UTILITIES, BY COUNTRY, 2022–2027 (USD
MILLION)

TABLE 143 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE FOR ENERGY & UTILITIES, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 144 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE FOR ENERGY & UTILITIES, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 145 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ASIA PACIFIC FOR ENERGY & UTILITIES, BY COUNTRY, 2018–2021 (USD

MILLION)

TABLE 146 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC FOR ENERGY & UTILITIES, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 147 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW FOR ENERGY & UTILITIES, BY REGION, 2018–2021 (USD MILLION)

TABLE 148 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW FOR ENERGY & UTILITIES, BY REGION, 2022–2027 (USD MILLION)

10.7 OTHERS

TABLE 149 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHERS, BY DATA RATE, 2018–2021 (USD MILLION)

TABLE 150 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHERS, BY DATA RATE, 2022–2027 (USD MILLION)

TABLE 151 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 152 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET FOR OTHERS, BY REGION, 2022–2027 (USD MILLION)

TABLE 153 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS FOR OTHERS, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 154 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS FOR OTHERS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 155 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE FOR OTHERS, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 156 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE FOR OTHERS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 157 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC FOR OTHERS, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 158 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC FOR OTHERS, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 159 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW FOR OTHERS, BY REGION, 2018–2021 (USD MILLION)

TABLE 160 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW FOR OTHERS, BY REGION, 2022–2027 (USD MILLION)

11 REGIONAL ANALYSIS

11.1 INTRODUCTION

FIGURE 40 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET: REGIONAL SNAPSHOT

TABLE 161 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 162 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, BY REGION, 2022–2027 (USD MILLION)

11.2 AMERICAS

FIGURE 41 AMERICAS: OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET SNAPSHOT

TABLE 163 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 164 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY COUNTRY, 2022–2027 (USD MILLION)

11.2.1 US

11.2.1.1 Presence of major tech companies to drive growth of market in US

11.2.2 CANADA

11.2.2.1 Adoption of IoT-based platform to drive investments for improvement of network infrastructure

11.2.3 MEXICO

11.2.3.1 Penetration of smartphones that leads to increase in data traffic to fuel market growing in coming years

11.2.4 BRAZIL

11.2.4.1 Presence of start-up companies to drive demand for optical networking equipment

11.2.5 REST OF AMERICAS

11.2.5.1 Use of smartphones to increase demand for optical networking equipment

TABLE 165 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 166 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 167 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 168 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 169 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS FOR WDM TECHNOLOGY, BY TYPE, 2018–2021 (USD MILLION)

TABLE 170 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS FOR WDM TECHNOLOGY, BY TYPE, 2022–2027 (USD MILLION)

TABLE 171 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN AMERICAS, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 172 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 173 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 174 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN AMERICAS, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

11.3 EUROPE

FIGURE 42 EUROPE: OPTICAL COMMUNICATION AND NETWORKING
EQUIPMENT MARKET SNAPSHOT

TABLE 175 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 176 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE, BY COUNTRY, 2022–2027 (USD MILLION)

11.3.1 GERMANY

11.3.1.1 Implementation of IoT in manufacturing and automotive industries to drive demand for optical networking equipment

11.3.2 FRANCE

11.3.2.1 Introduction of 5G technology to boost growth of optical Communication and networking equipment market

11.3.3 UK

11.3.3.1 Government initiatives on industry 4.0 to drive demand for optical communication and networking equipment

11.3.4 ITALY

11.3.4.1 Presence of unique subscribers to ensure growth of optical communication and networking equipment market

11.3.5 REST OF EUROPE

11.3.5.1 Inclination toward high-speed internet services to boom optical communication and networking equipment market growth

TABLE 177 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 178 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 179 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE, BY TECHNOLOGY, 2018–2021(USD MILLION)

TABLE 180 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 181 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE FOR WDM TECHNOLOGY, BY TYPE, 2018–2021 (USD MILLION)

TABLE 182 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN EUROPE FOR WDM TECHNOLOGY, BY TYPE, 2022–2027 (USD MILLION)

TABLE 183 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 184 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 185 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 186 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN EUROPE, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

11.4 ASIA PACIFIC

FIGURE 43 ASIA PACIFIC: OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET SNAPSHOT

TABLE 187 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 188 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY COUNTRY, 2022–2027 (USD MILLION)

11.4.1 CHINA

11.4.1.1 Growing adoption of internet plus strategy to drive demand for optical communication and networking equipment

11.4.2 JAPAN

11.4.2.1 Increasing demand for cloud technology to boost optical communication and networking equipment market growth

11.4.3 SOUTH KOREA

11.4.3.1 Increasing demand for computer networking and database services to propel market growth

11.4.4 INDIA

11.4.4.1 Surging demand for network upgrading to fuel optical communication and networking equipment market growth

11.4.5 REST OF ASIA PACIFIC

11.4.5.1 Escalating demand for high-connectivity data transmission services to foster market growth

TABLE 189 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 190 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 191 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 192 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ASIA PACIFIC, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 193 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ASIA PACIFIC FOR WDM TECHNOLOGY, BY TYPE, 2018–2021 (USD MILLION)

TABLE 194 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ASIA PACIFIC FOR WDM TECHNOLOGY, BY TYPE, 2022–2027 (USD MILLION)

TABLE 195 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ASIA PACIFIC, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 196 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ASIA PACIFIC, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 197 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ASIA PACIFIC, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 198 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ASIA PACIFIC, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

11.5 REST OF THE WORLD

FIGURE 44 ROW: OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT
MARKET SNAPSHOT

TABLE 199 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ROW, BY REGION, 2018–2021 (USD MILLION)

TABLE 200 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET

IN ROW, BY REGION, 2022–2027 (USD MILLION)

11.5.1 MIDDLE EAST

11.5.1.1 Rising investments toward datacenter applications to drive demand for
optical communication and networking equipment

11.5.2 AFRICA

11.5.2.1 Growing number of mobile subscribers and increasing penetration of
telecom services to drive optical communication and networking equipment market
growth

TABLE 201 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 202 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 203 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW, BY TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 204 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW, BY TECHNOLOGY, 2022–2027 (USD MILLION)

TABLE 205 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW FOR WDM TECHNOLOGY, BY TYPE, 2018–2021 (USD MILLION)

TABLE 206 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW FOR WDM TECHNOLOGY, BY TYPE, 2022–2027 (USD MILLION)

TABLE 207 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET
IN ROW, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 208 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 209 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW, BY OPTICAL FIBER MODE, 2018–2021 (USD MILLION)

TABLE 210 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET IN ROW, BY OPTICAL FIBER MODE, 2022–2027 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

FIGURE 45 COMPANIES IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET ADOPTED PRODUCT LAUNCHES AS KEY GROWTH STRATEGY FROM 2019 TO 2021

12.2 RANKING ANALYSIS OF MARKET PLAYERS

FIGURE 46 MARKET RANKING OF TOP 5 PLAYERS IN OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET, 2021

12.3 COMPETITIVE LEADERSHIP MAPPING

12.3.1 VISIONARY LEADERS

12.3.2 DYNAMIC DIFFERENTIATORS

12.3.3 INNOVATORS

12.3.4 EMERGING COMPANIES

FIGURE 47 OPTICAL COMMUNICATION AND NETWORKING EQUIPMENT MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2021

12.4 STRENGTH OF PRODUCT PORTFOLIO (FOR ALL 25 PLAYERS)

12.5 BUSINESS STRATEGY EXCELLENCE (FOR ALL 25 PLAYERS)

12.6 COMPETITIVE SCENARIO

12.6.1 PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 211 MAJOR PRODUCT LAUNCHES AND DEVELOPMENTS, JANUARY

2019–MARCH 2022

12.6.2 PARTNERSHIP, COLLABORATIONS, AGREEMENTS, AND CONTRACTS

TABLE 212 MAJOR PARTNERSHIPS, COLLABORATIONS, AND AGREEMENTS, JANUARY 2019–MARCH 2022

12.6.3 ACQUISITIONS

TABLE 213 MAJOR ACQUISITIONS, JANUARY 2019–MARCH 2022

13 COMPANY PROFILES

13.1 KEY PLAYERS

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM view)*

13.1.1 HUAWEI TECHNOLOGIES COMPANY, LTD.

FIGURE 48 HUAWEI TECHNOLOGIES COMPANY, LTD.: COMPANY SNAPSHOT

13.1.2 CISCO SYSTEMS, INC.

FIGURE 49 CISCO SYSTEMS, INC.: COMPANY SNAPSHOT

13.1.3 CIENA CORPORATION

FIGURE 50 CIENA CORPORATION: COMPANY SNAPSHOT

13.1.4 NOKIA

FIGURE 51 NOKIA: COMPANY SNAPSHOT

13.1.5 II-VI INCORPORATED

FIGURE 52 II-VI INCORPORATED: COMPANY SNAPSHOT

13.1.6 ZTE CORPORATION

FIGURE 53 ZTE CORPORATION: COMPANY SNAPSHOT

13.1.7 ADTRAN, INC.

FIGURE 54 ADTRAN, INC.: COMPANY SNAPSHOT

13.1.8 INFINERA CORP.

FIGURE 55 INFINERA CORP.: COMPANY SNAPSHOT

13.1.9 ADVA OPTICAL NETWORKING

FIGURE 56 ADVA OPTICAL NETWORKING: COMPANY SNAPSHOT

13.1.10 FUJITSU

FIGURE 57 FUJITSU: COMPANY SNAPSHOT

13.2 RIGHT TO WIN

13.3 OTHER KEY PLAYERS

13.3.1 RIBBON COMMUNICATIONS

13.3.2 CALIX, INC.

13.3.3 LUMENTUM HOLDINGS INC.

13.3.4 NEOPHOTONICS CORPORATION

13.3.5 BROADCOM

13.3.6 NEC CORPORATION

13.3.7 JUNIPER NETWORK, INC.

13.3.8 TELEFONAKTIEBOLAGET LM ERICSSON

13.3.9 ALCATEL-LUCENT ENTERPRISE

13.3.10 CORNING

13.3.11 ARISTA NETWORKS, INC.

13.3.12 TE CONNECTIVITY

13.3.13 MICROCHIP

13.3.14 PADTEC

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, Winning imperatives, Current strategies, right to win might not be captured in case of unlisted companies.

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

14.3 AVAILABLE CUSTOMIZATIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

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