

# **Integrated Quantum Optical Circuits Market by Material Type (Indium Phosphide, Silica Glass, Silicon Photonics, Lithium Niobate, and Gallium Arsenide) and Application (Optical Fiber Communication, Optical Sensors, Bio Medical, Quantum Computing, and Others): Global Opportunity Analysis and Industry Forecast, 2018 - 2025**

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## **Abstracts**

Integrated Quantum Optical Circuits market overview:

Integrated Quantum Optical Circuits is a device that integrates multiple optical devices to form a single photonic circuit. It consists of complex circuit configurations due to integration of various optical devices including multiplexers, amplifiers, modulators, and others into a small compact circuit. It enables efficient electrical to optical conversions and allows devices to work at high temperature. These devices are much more efficient, have higher bandwidth, higher processing speed, and lower energy loss in comparison of traditional integrated circuits.

The optical fiber communication accounts for the highest market share in the global integrated quantum optical circuits market due to the extensive use of optical fiber by telecom industries in building or installing network infrastructures.

According to the International Telecommunications Union, 70% of the total global youth (15-24) population is accessing the internet; whereas, in the developed countries, 90% of the total young population is using the internet. Therefore, mobile broadband subscriptions grew with the annual growth rate of more than 20% in the past six years and reached 4.3 billion globally by end of 2017. The primary reason for such a huge

adoption in mobile broadband services was the affordable price. Increase in government spending on digitization, decrease in the prices of smartphones, and improved tele density are the factors that drive the demand for high-speed internet connectivity. This is expected to influence the requirement of high bandwidth data and, in turn, drives the growth of the global integrated quantum optical circuits market.

The global integrated quantum optical circuits market is segmented into application, material type, and geography. Based on application, the market is segmented into optical fiber communication, optical sensors, bio medical, quantum computing, and others. Based on market type, the market is divided into indium phosphide (InP), silica glass, silicon (silicon photonics), lithium niobate (LiNbO<sub>3</sub>), and gallium arsenide (GaAs). Based on region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The major players operating in the global integrated quantum optical circuits market are Aifotec AG, Ciena Corporation, Finisar Corporation, Intel Corporation, Infinera Corporation, Neophotonics Corporation, TE Connectivity, Oclaro Inc., Luxtera, Inc., and Emcore Corporation.

These players have adopted various growth strategies, such as mergers, acquisitions, collaborations, and partnerships, to strengthen their market reach and retain their position in the market.

#### Key Benefits for Integrated Quantum Optical Circuits market:

This study presents the analytical depiction of the global integrated quantum optical circuits market along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information regarding the key drivers, restraints, and opportunities.

The current market is quantitatively analyzed for the period 2017?2025 to highlight the financial competency of the global integrated quantum optical circuits market.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the market.

## Integrated Quantum Optical Circuits market Segmentation:

### By Material Type

Indium Phosphide

Silica Glass

Silicon Photonics

Lithium Niobate

Gallium Arsenide

### By Application

Optical Fiber Communication

Optical Sensors

Bio Medical

Quantum Computing

Others (Submarines & Lidar)

### By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS FOR STAKEHOLDERS
- 1.3. KEY MARKET SEGMENTS
- 1.4. RESEARCH METHODOLOGY
  - 1.4.1. Primary research
  - 1.4.2. Secondary research
  - 1.4.3. Analyst tools and models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO PERSPECTIVE

### CHAPTER 3: MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
  - 3.2.1. Top impacting factors
  - 3.2.2. Top investment pockets
  - 3.2.3. Top winning strategies
- 3.3. PORTERS FIVE FORCES ANALYSIS
- 3.4. KEY PLAYER POSITIONING, 2017
- 3.5. MARKET DYNAMICS
  - 3.5.1. Drivers
    - 3.5.1.1. Growth in demand of high-speed internet connectivity
    - 3.5.1.2. Proliferation of app- based solutions in personal & professional life
    - 3.5.1.3. Increase in demand of quantum computing
  - 3.5.2. Restraint
    - 3.5.2.1. High initial cost and design complexity
  - 3.5.3. Opportunities
    - 3.5.3.1. Rise in investment on building 5G network

### CHAPTER 4: INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE

- 4.1. OVERVIEW
- 4.2. INDIUM PHOSPHIDE

- 4.2.1. Key market trends, growth factors and opportunities
- 4.2.2. Market size and forecast, by region
- 4.2.3. Market analysis by country
- 4.3. SILICA GLASS
  - 4.3.1. Key market trends, growth factors, and opportunities
  - 4.3.2. Market size and forecast, by region
  - 4.3.3. Market analysis by country
- 4.4. SILICON PHOTONICS
  - 4.4.1. Key market trends, growth factors, and opportunities
  - 4.4.2. Market size and forecast, by region
  - 4.4.3. Market analysis by country
- 4.5. LITHIUM NIOBATE
  - 4.5.1. Key market trends, growth factors, and opportunities
  - 4.5.2. Market size and forecast, by region
  - 4.5.3. Market analysis by country
- 4.6. GALLIUM ARSENIDE
  - 4.6.1. Key market trends, growth factors, and opportunities
  - 4.6.2. Market size and forecast, by region
  - 4.6.3. Market analysis by country

## **CHAPTER 5: INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION**

- 5.1. OVERVIEW
- 5.2. OPTICAL FIBRE COMMUNICATION
  - 5.2.1. Key market trends, growth factors and opportunities
  - 5.2.2. Market size and forecast, by region
  - 5.2.3. Market analysis by country
- 5.3. OPTICAL SENSORS
  - 5.3.1. Key market trends, growth factors and opportunities
  - 5.3.2. Market size and forecast, by region
  - 5.3.3. Market analysis by country
- 5.4. BIO MEDICAL
  - 5.4.1. Key market trends, growth factors and opportunities
  - 5.4.2. Market size and forecast, by region
  - 5.4.3. Market analysis by country
- 5.5. QUANTUM COMPUTING
  - 5.5.1. Key market trends, growth factors and opportunities
  - 5.5.2. Market size and forecast, by region
  - 5.5.3. Market analysis by country

## 5.6. OTHERS

- 5.6.1. Key market trends, growth factors and opportunities
- 5.6.2. Market size and forecast, by region
- 5.6.3. Market analysis by country

## CHAPTER 6: INTEGRATED QUANTUM OPTICAL CIRCUITS, BY REGION

### 6.1. OVERVIEW

### 6.2. NORTH AMERICA

- 6.2.1. Key market trends, growth factors, and opportunities
- 6.2.2. Market size and forecast, by Material type
- 6.2.3. Market size and forecast, by application
- 6.2.4. Market analysis by country
  - 6.2.4.1. U.S.
    - 6.2.4.1.1. Market size and forecast, by Material type
    - 6.2.4.1.3. Market size and forecast, by application
  - 6.2.4.2. Canada
    - 6.2.4.2.1. Market size and forecast, by Material type
    - 6.2.4.2.3. Market size and forecast, by application
  - 6.2.4.3. Mexico
    - 6.2.4.3.1. Market size and forecast, by Material type
    - 6.2.4.3.2. Market size and forecast, by application

### 6.3. EUROPE

- 6.3.1. Key market trends, growth factors, and opportunities
- 6.3.2. Market size and forecast, by Material type
- 6.3.3. Market size and forecast, by application
- 6.3.4. Market analysis by country
  - 6.3.4.1. UK
    - 6.3.4.1.1. Market size and forecast, by Material type
    - 6.3.4.1.3. Market size and forecast, by application
  - 6.3.4.2. Germany
    - 6.3.4.2.1. Market size and forecast, by Material type
    - 6.3.4.2.3. Market size and forecast, by application
  - 6.3.4.3. France
    - 6.3.4.3.1. Market size and forecast, by Material type
    - 6.3.4.3.2. Market size and forecast, by application
  - 6.3.4.4. Italy
    - 6.3.4.4.1. Market size and forecast, by Material type
    - 6.3.4.4.3. Market size and forecast, by application

#### 6.3.4.5. Rest of Europe

6.3.4.5.1. Market size and forecast, by Material type

6.3.4.5.3. Market size and forecast, by application

### 6.4. ASIA-PACIFIC

6.4.1. Key market trends, growth factors, and opportunities

6.4.2. Market size and forecast, by Material type

6.4.3. Market size and forecast, by application

6.4.4. Market analysis by country

#### 6.4.4.1. China

6.4.4.1.1. Market size and forecast, by Material type

6.4.4.1.3. Market size and forecast, by application

#### 6.4.4.2. Japan

6.4.4.2.1. Market size and forecast, by Material type

6.4.4.2.3. Market size and forecast, by application

#### 6.4.4.3. India

6.4.4.3.1. Market size and forecast, by Material type

6.4.4.3.3. Market size and forecast, by application

#### 6.4.4.4. Australia

6.4.4.4.1. Market size and forecast, by Material type

6.4.4.4.3. Market size and forecast, by application

#### 6.4.4.5. Rest of Asia-Pacific

6.4.4.5.1. Market size and forecast, by Material type

6.4.4.5.3. Market size and forecast, by application

### 6.5. LAMEA

6.5.1. Key market trends, growth factors, and opportunities

6.5.2. Market size and forecast, by Material type

6.5.3. Market size and forecast, by application

6.5.4. Market analysis by country

#### 6.5.4.1. Latin America

6.5.4.1.1. Market size and forecast, by Material type

6.5.4.1.3. Market size and forecast, by application

#### 6.5.4.2. Middle East

6.5.4.2.1. Market size and forecast, by Material type

6.5.4.2.3. Market size and forecast, by application

#### 6.5.4.3. Africa

6.5.4.3.1. Market size and forecast, by Material type

6.5.4.3.3. Market size and forecast, by application

## CHAPTER 7: COMPANY PROFILE



## 7.1. AIFOTEC AG

7.1.1. Company overview

7.1.2. Company snapshot

## 7.2. CIENA CORPORATION

7.2.1. Company overview

7.2.2. Company snapshot

7.2.3. Operating business segments

7.2.4. Business performance

7.2.5. Key strategic moves and developments

## 7.3. EMCORE CORPORATION

7.3.1. Company overview

7.3.2. Company snapshot

7.3.3. Product portfolio

7.3.4. Business performance

7.3.5. Key strategic moves and developments

## 7.4. FINISAR CORPORATION

7.4.1. Company overview

7.4.2. Company snapshot

7.4.3. Product portfolio

7.4.4. Business performance

7.4.5. Key strategic moves and developments

## 7.5. INTEL CORPORATION

7.5.1. Company overview

7.5.2. Company snapshot

7.5.3. Operating business segments

7.5.4. Product portfolio

7.5.5. Business performance

7.5.6. Key strategic moves and developments

## 7.6. INFINERA CORPORATION

7.6.1. Company overview

7.6.2. Company snapshot

7.6.3. Operating business segments

7.6.4. Product portfolio

7.6.5. Business performance

7.6.6. Key strategic moves and developments

## 7.7. LUXTERA

7.7.1. Company overview

7.7.2. Company snapshot

7.7.3. Product portfolio

7.7.4. Key strategic moves and developments

## 7.8. LUMENTUM OPERATIONS LLC

7.8.1. Company overview

7.8.2. Company snapshot

7.8.3. Operating business segments

7.8.4. Product portfolio

7.8.5. Business performance

7.8.6. Key strategic moves and developments

## 7.9. NEOPHOTONICS CORPORATION

7.9.1. Company overview

7.9.2. Company snapshot

7.9.3. Operating business segments

7.9.4. Product portfolio

7.9.5. Business performance

7.9.6. Key strategic moves and developments

## 7.10. TE CONNECTIVITY

7.10.1. Company overview

7.10.2. Company snapshot

7.10.3. Operating business segments

7.10.4. Product portfolio

7.10.5. Business performance

7.10.6. Key strategic moves and developments

## List Of Tables

### LIST OF TABLES

TABLE 01. GLOBAL INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025(\$MILLION)

TABLE 02. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR INDIUM PHOSPHIDE, BY REGION 2017-2025 (\$MILLION)

TABLE 03. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR SILICA GLASS, BY REGION 2017-2025 (\$MILLION)

TABLE 04. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR SILICON PHOTONICS, BY REGION 2017-2025 (\$MILLION)

TABLE 05. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR LITHIUM NIOBATE, BY REGION 2017-2025 (\$MILLION)

TABLE 06. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR GALLIUM ARSENIDE, BY REGION 2017-2025 (\$MILLION)

TABLE 07. GLOBAL INTEGRATED QUANTUM OPTICAL CIRCUITS, BY INDUSTRY VERTICAL, 2017-2025 (\$MILLION)

TABLE 08. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR OPTICAL FIBRE COMMUNICATION, BY REGION, 2017-2025 (\$MILLION)

TABLE 09. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR OPTICAL SENSORS, BY REGION 2017-2025 (\$MILLION)

TABLE 10. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR BIO MEDICAL, BY REGION, 2017-2025 (\$MILLION)

TABLE 11. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR QUANTUM COMPUTING, BY REGION, 2017-2025 (\$MILLION)

TABLE 12. INTEGRATED QUANTUM OPTICAL CIRCUITS REVENUE FOR OTHERS, BY REGION 2017-2025 (\$MILLION)

TABLE 13. NORTH AMERICAN INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 14. NORTH AMERICAN INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 15. U. S. INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 16. U.S. INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 17. CANADA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 18. CANADA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY

APPLICATION, 20172025 (\$MILLION)

TABLE 19. MEXICO INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 20. MEXICO INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 21. EUROPEAN INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 22. EUROPEAN INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 23. U.K. INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 24. U.K. INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 25. GERMANY INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 26. GERMANY INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 27. FRANCE INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 28. FRANCE INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 29. ITALY INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 30. ITALY INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 31. REST OF EUROPE INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 32. REST OF EUROPE INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 33. ASIA-PACIFIC INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 34. ASIA-PACIFIC INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 35. CHINA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 36. CHINA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 20172025 (\$MILLION)

TABLE 37. JAPAN INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 20172025 (\$MILLION)

TABLE 38. JAPAN INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 39. INDIA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 40. INDIA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 41. AUSTRALIA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 42. AUSTRALIA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 43. REST OF ASIA-PACIFIC INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 44. REST OF ASIA-PACIFIC INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 45. LAMEA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 46. LAMEA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 47. LATIN AMERICA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 48. LATIN AMERICA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 49. MIDDLE EAST INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 50. MIDDLE EAST INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 51. AFRICA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY MATERIAL TYPE, 2017-2025 (\$MILLION)

TABLE 52. AFRICA INTEGRATED QUANTUM OPTICAL CIRCUITS, BY APPLICATION, 2017-2025 (\$MILLION)

TABLE 53. AIFOTEC AG: COMPANY SNAPSHOT

TABLE 54. CIENA CORPORATION: COMPANY SNAPSHOT

TABLE 55. CIENA CORPORATION: OPERATING SEGMENTS

TABLE 56. CIENA CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 57. EMCORE CORPORATION: COMPANY SNAPSHOT

TABLE 58. EMCORE CORPORATION: PRODUCT PORTFOLIO

TABLE 59. EMCORE CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 60. FINISAR CORPORATION: COMPANY SNAPSHOT
TABLE 61. FINISAR CORPORATION: PRODUCT PORTFOLIO
TABLE 62. FINISAR CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 63. INTEL CORPORATION: COMPANY SNAPSHOT
TABLE 64. INTEL CORPORATION: OPERATING SEGMENTS
TABLE 65. INTEL CORPORATION: PRODUCT PORTFOLIO
TABLE 66. INTEL CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 67. INFINERA CORPORATION: COMPANY SNAPSHOT
TABLE 68. INFINERA CORPORATION: OPERATING SEGMENTS
TABLE 69. INFINERA CORPORATION: PRODUCT PORTFOLIO
TABLE 70. INFINERA CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 71. LUXTERA: COMPANY SNAPSHOT
TABLE 72. LUXTERA: PRODUCT PORTFOLIO
TABLE 73. LUXTERA: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 74. LUMENTUM OPERATIONS LLC: COMPANY SNAPSHOT
TABLE 75. LUMENTUM OPERATIONS LLC: OPERATING SEGMENTS
TABLE 76. LUMENTUM OPERATIONS LLC: PRODUCT PORTFOLIO
TABLE 77. LUMENTUM OPERATIONS LLC: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 78. NEOPHOTONICS CORPORATION: COMPANY SNAPSHOT
TABLE 79. NEOPHOTONICS CORPORATION: OPERATING SEGMENTS
TABLE 80. NEOPHOTONICS CORPORATION: PRODUCT PORTFOLIO
TABLE 81. NEOPHOTONICS CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS
TABLE 82. TE CONNECTIVITY: COMPANY SNAPSHOT
TABLE 83. TE CONNECTIVITY: OPERATING SEGMENTS
TABLE 84. TE CONNECTIVITY: PRODUCT PORTFOLIO
TABLE 85. TE CONNECTIVITY: KEY STRATEGIC MOVES AND DEVELOPMENTS

## List Of Figures

### LIST OF FIGURES

FIGURE 01. KEY MARKET SEGMENTS

FIGURE 02. EXECUTIVE SUMMARY, BY SEGMENTS

FIGURE 03. EXECUTIVE SUMMARY, BY GEOGRAPHY

FIGURE 04. TOP IMPACTING FACTORS

FIGURE 05. TOP INVESTMENT POCKETS

FIGURE 06. TOP WINNING STRATEGIES, BY YEAR, 2015-2018

FIGURE 07. TOP WINNING STRATEGIES, BY DEVELOPMENT, 2015-2018

FIGURE 08. TOP WINNING STRATEGIES, BY COMPANY, 2015-2018

FIGURE 09. MODERATE BARGAINING POWER OF SUPPLIERS

FIGURE 10. MODERATE THREAT OF NEW ENTRANTS

FIGURE 11. MODERATE THREAT OF SUBSTITUTES

FIGURE 12. MODERATE INTENSITY OF RIVALRY

FIGURE 13. HIGH BARGAINING POWER OF BUYERS

FIGURE 14. KEY PLAYER POSITIONING

FIGURE 15. GLOBAL INTEGRATED QUANTUM OPTICAL CIRCUITS SHARE, BY MATERIAL TYPE, 2017-2025 (%)

FIGURE 16. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR INDIUM PHOSPHIDE, BY COUNTRY, 2017 & 2025 (%)

FIGURE 17. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR SILICA GLASS, BY COUNTRY, 2017 & 2025 (%)

FIGURE 18. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR SILICON PHOTONICS, BY COUNTRY, 2017 & 2025 (%)

FIGURE 19. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR LITHIUM NIOBATE, BY COUNTRY, 2017 & 2025 (%)

FIGURE 20. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR GALLIUM ARSENIDE, BY COUNTRY, 2017 & 2025 (%)

FIGURE 21. GLOBAL INTEGRATED QUANTUM OPTICAL CIRCUITS SHARE, BY APPLICATION, 2017-2025 (%)

FIGURE 22. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR OPTICAL FIBRE COMMUNICATION, BY COUNTRY, 2017 & 2025 (%)

FIGURE 23. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR OPTICAL SENSORS, BY COUNTRY, 2017 & 2025 (%)

FIGURE 24. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR BIO MEDICAL, BY COUNTRY, 2017 & 2025 (%)



FIGURE 25. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR QUANTUM COMPUTING, BY COUNTRY, 2017 & 2025 (%)

FIGURE 26. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS FOR OTHERS, BY COUNTRY, 2017 & 2025 (%)

FIGURE 27. INTEGRATED QUANTUM OPTICAL CIRCUITS, BY REGION, 2017-2025 (%)

FIGURE 28. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS, BY COUNTRY, 2017-2025 (%)

FIGURE 29. U. S. INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 30. CANADA INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 31. MEXICO INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 32. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS, BY COUNTRY, 2017-2025 (%)

FIGURE 33. U.K. INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 34. GERMANY INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 35. FRANCE INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 36. ITALY INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 37. REST OF EUROPE INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 38. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM OPTICAL CIRCUITS, BY COUNTRY, 2017-2025 (%)

FIGURE 39. CHINA INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 40. JAPAN INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 41. INDIA INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 42. AUSTRALIA INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 43. REST OF ASIA-PACIFIC INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 44. COMPARATIVE SHARE ANALYSIS OF INTEGRATED QUANTUM



OPTICAL CIRCUITS, BY COUNTRY, 2017-2025 (%)

FIGURE 45. LATIN AMERICA INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 46. MIDDLE EAST INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 47. AFRICA INTEGRATED QUANTUM OPTICAL CIRCUITS, 2017-2025 (\$MILLION)

FIGURE 48. CIENA CORPORATION: REVENUE, 2015-2017 (\$MILLION)

FIGURE 49. CIENA CORPORATION: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 50. CIENA CORPORATION: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

FIGURE 51. EMCORE CORPORATION: REVENUE, 2016-2018 (\$MILLION)

FIGURE 52. EMCORE CORPORATION: REVENUE SHARE BY GEOGRAPHY, 2018 (%)

FIGURE 53. FINISAR CORPORATION: REVENUE, 2015-2017 (\$MILLION)

FIGURE 54. FINISAR CORPORATION: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

FIGURE 55. INTEL CORPORATION: NET SALES, 2015-2017 (\$MILLION)

FIGURE 56. INTEL CORPORATION: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 57. INTEL CORPORATION: REVENUE SHARE BY REGION, 2017 (%)

FIGURE 58. INFINERA CORPORATION: REVENUE, 2015-2017 (\$MILLION)

FIGURE 59. INFINERA CORPORATION: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 60. INFINERA CORPORATION: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

FIGURE 61. LUMENTUM OPERATIONS LLC: REVENUE, 2016-2018 (\$MILLION)

FIGURE 62. LUMENTUM OPERATIONS LLC: REVENUE SHARE BY SEGMENT, 2018 (%)

FIGURE 63. LUMENTUM OPERATIONS LLC: REVENUE SHARE BY GEOGRAPHY, 2018 (%)

FIGURE 64. NEOPHOTONICS CORPORATION: REVENUE, 2015-2017 (\$MILLION)

FIGURE 65. NEOPHOTONICS CORPORATION: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 66. NEOPHOTONICS CORPORATION: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

FIGURE 67. TE CONNECTIVITY: REVENUE, 2016-2018 (\$MILLION)

FIGURE 68. TE CONNECTIVITY: REVENUE SHARE BY SEGMENT, 2017 (%)

FIGURE 69. TE CONNECTIVITY: REVENUE SHARE BY GEOGRAPHY, 2017 (%)

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