

System in Package (SiP) Technology Market by Packaging Technology (2-D IC Packaging, 2.5-D IC Packaging, and 3-D IC Packaging), Packaging Type (Flat Packages, Pin Grid Arrays, Surface Mount, Small Outline Packages, and Others), Interconnection Technology (Wire Bond, and Flip Chip) - Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

The global system in package (SiP) technology market is anticipated to register a CAGR of 9.0% from 2016 to 2022 to attain a market size of around \$30 billion by 2022. SiP is a combination of number of integrated circuits enclosed in a single module, which can perform all the functions of electronics systems. In SiP, all the external passive components are integrated into one small chip, which further reduces cost to develop and assemble a printed circuit board (PCB). SiP can be operated in harsh system environments and are less corrosive in nature. In addition, it saves space owing to its compact size and is cost efficient. It is widely adopted in several applications, such as consumer electronics, automotive, and telecommunication.

Increase in demand for high performance compact size electronic devices and need for low power consumption devices is expected to drive the market. Moreover, it supports high input impedance and improved parallel current sharing, which fuels the market growth. However, performance issues such as current leakage and breakdown hamper the growth of the market. Irrespective of these challenges, rapid adoption of smartphone & tablets in the emerging countries are expected to provide huge opportunities for growth in the future.

The SiP market is segmented based on packaging technology, packaging type, interconnection technology, application, and geography. The packaging technology segment is divided into 2-D IC packaging, 2.5-D IC packaging, and 3-D IC packaging.



The packaging type segment is classified into flat packages, pin grid arrays, surface mount, small outline packages, and others. The interconnection technology is bifurcated into wire bond and flip chip. Based on application, the market is classified into consumer electronics, automotive, telecommunications, industrial system, military, defense & aerospace, and others. Geographically, it is analyzed across North America (U.S., Mexico, and Canada), Europe (UK, Germany, France, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

Major companies profiled in the report include Amkor Technology Inc., Fujitsu Ltd., Toshiba Corporation, Qualcomm Incorporated, Renesas Electronics Corporation, Samsung Electronics Co Ltd, Jiangsu Changjiang Electronics Technology Co., Ltd., ChipMOS Technologies Inc., Powertech Technologies Inc., and ASE Group. SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET @KEY BENEFITS:

Comprehensive analysis of the current trends and future estimations of the global SiP technology market is provided in the report.

The report provides a competitive scenario of the market along with growth trends, structure, driving factors, scope, opportunities, and challenges.

The report includes a detailed analysis of the key segments to provide insights on the market dynamics.

Porter's Five Forces analysis highlights the potential of buyers and suppliers as well as provides insights on the competitive structure of the market to devise effective growth strategies and facilitate better decision-making.

SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET SEGMENTATION: The global SiP technology market is segmented based on packaging technology, packaging type, interconnection technology, application, and geography. BY PACKAGING TECHNOLOGY

2-D IC Packaging

2.5-D IC Packaging

3-D IC Packaging



BY PACKAGING TYPE

Flat Packages

Pin Grid Arrays

Surface Mount

Small Outline Packages

Others (Through-Hole Packages, Chip Carrier)

BY INTERCONNECTION TECHNOLOGY

Wire Bond

Flip Chip

BY APPLICATION

Consumer Electronics

Automotive

Telecommunications

Industrial System

Military, Defense & Aerospace

Others (Traction & Medical)

BY GEOGRAPHY

North America



	U.S.	
	Mexico	
	Canada	
Europe		
	UK	
	Germany	
	France	
	Rest of Europe	
Asia-Pacific		
	India	
	China	
	Japan	
	South Korea	
	Rest of Asia-Pacific	
LAMEA		
	Latin America	
	Middle East	
	Africa	

KEY PLAYERS



Amkor Technology Inc.	
Fujitsu Ltd.	
Toshiba Corporation	
Qualcomm Incorporated	
Renesas Electronics Corporation	
Samsung Electronics Co Ltd	
Jiangsu Changjiang Electronics Technology Co., Ltd.	
ChipMOS Technologies Inc.	
Powertech Technologies Inc.	
ASE Group	
Other players in the value chain include (profiles not included in the report): GS Nanotech	
Siliconware Precision Industries Co., Ltd.	
Chipbond Technology Corporation	
Octavo Systems LLC	



Contents

CHAPTER: 1 INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS
- 1.3. KEY MARKET SEGMENTS
- 1.4. RESEARCH METHODOLOGY
 - 1.4.1. Secondary research
 - 1.4.2. Primary 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 winning strategies
 - 3.2.3. Top investment pockets
- 3.3. PORTERS FIVE FORCES ANALYSIS
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers
 - 3.3.3. Threat of substitutes
 - 3.3.4. Threat of new entrants
 - 3.3.5. Intensity of competitive rivalry
- 3.4. MARKET SHARE ANALYSIS, 2015
- 3.5. MARKET DYNAMICS
 - 3.5.1. Drivers
 - 3.5.2. Restraints
 - 3.5.3. Opportunities

CHAPTER: 4 GLOBAL SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY PACKAGING TECHNOLOGY

4.1. OVERVIEW



- 4.1.1. Market size and forecast
- 4.2. 2-D IC PACKAGING
 - 4.2.1. Introduction
 - 4.2.2. Key market trends, growth factors and opportunities
 - 4.2.3. Market size and forecast
- 4.3. 2.5-D IC PACKAGING
 - 4.3.1. Introduction
 - 4.3.2. Key market trends, growth factors and opportunities
 - 4.3.3. Market size and forecast
- 4.4. 3-D IC PACKAGING
- 4.4.1. Introduction
- 4.4.2. Key market trends, growth factors and opportunities
- 4.4.3. Market size and forecast

CHAPTER: 5 GLOBAL SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY PACKAGING TYPE

- 5.1. OVERVIEW
 - 5.1.1. Market size and forecast
- 5.2. FLAT PACKAGES
 - 5.2.1. Introduction
 - 5.2.2. Key market trends, growth factors and opportunities
 - 5.2.3. Market size and forecast
- 5.3. PIN GRID ARRAYS
 - 5.3.1. Introduction
 - 5.3.2. Key market trends, growth factors and opportunities
 - 5.3.3. Market size and forecast
- 5.4. SURFACE MOUNT
 - 5.4.1. Introduction
 - 5.4.2. Key market trends, growth factors and opportunities
 - 5.4.3. Market size and forecast
- 5.5. SMALL OUTLINE PACKAGES
 - 5.5.1. Introduction
 - 5.5.2. Key market trends, growth factors and opportunities
 - 5.5.3. Market size and forecast
- 5.6. OTHERS
 - 5.6.1. Introduction
- 5.6.2. Key market trends, growth factors and opportunities
- 5.6.3. Market size and forecast



CHAPTER: 6 GLOBAL SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY INTERCONNECTION TECHNOLOGY

- 6.1. OVERVIEW
 - 6.1.1. Market size and forecast
- 6.2. WIRE BOND
 - 6.2.1. Introduction
 - 6.2.2. Key market trends, growth factors and opportunities
 - 6.2.3. Market size and forecast
- 6.3. FLIP CHIP
 - 6.3.1. Introduction
 - 6.3.2. Key market trends, growth factors and opportunities
 - 6.3.3. Market size and forecast

CHAPTER: 7 SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY APPLICATION

- 7.1. OVERVIEW
 - 7.1.1. Market size and forecast
- 7.2. CONSUMER ELECTRONICS
 - 7.2.1. Introduction
 - 7.2.2. Key market trends, growth factors and opportunities
 - 7.2.3. Market size and forecast
- 7.3. AUTOMOTIVE
 - 7.3.1. Introduction
 - 7.3.2. Key market trends, growth factors and opportunities
 - 7.3.3. Market size and forecast
- 7.4. TELECOMMUNICATIONS
 - 7.4.1. Introduction
- 7.4.2. Key market trends, growth factors and opportunities
- 7.4.3. Market size and forecast
- 7.5. INDUSTRIAL SYSTEM
 - 7.5.1. Introduction
 - 7.5.2. Key market trends, growth factors and opportunities
 - 7.5.3. Market size and forecast
- 7.6. AEROSPACE & DEFENSE
 - 7.6.1. Introduction
- 7.6.2. Key market trends, growth factors and opportunities



7.6.3. Market size and forecast

7.7. OTHERS

- 7.7.1. Introduction
- 7.7.2. Key market trends, growth factors and opportunities
- 7.7.3. Market size and forecast

CHAPTER: 8 SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY GEOGRAPHY

8.1. OVERVIEW

8.1.1. Market size and forecast

8.2. NORTH AMERICA

- 8.2.1. Introduction
- 8.2.2. Key market trends, growth factors and opportunities
- 8.2.3. Market size and forecast
- 8.2.4. U.S.
 - 8.2.4.1. Market size and forecast
- 8.2.5. Canada
 - 8.2.5.1. Market size and forecast
- 8.2.6. Mexico
 - 8.2.6.1. Market size and forecast

8.3. EUROPE

- 8.3.1. Introduction
- 8.3.2. Key market trends, growth factors and opportunities
- 8.3.3. Market size and forecast
- 8.3.4. UK
 - 8.3.4.1. Market size and forecast
- 8.3.5. Germany
 - 8.3.5.1. Market size and forecast
- 8.3.6. France
 - 8.3.6.1. Market size and forecast
- 8.3.7. Rest of Europe
 - 8.3.7.1. Market size and forecast

8.4. ASIA-PACIFIC

- 8.4.1. Introduction
- 8.4.2. Key market trends, growth factors and opportunities
- 8.4.3. Market size and forecast
- 8.4.4. China
- 8.4.4.1. Market size and forecast



- 8.4.5. Japan
 - 8.4.5.1. Market size and forecast
- 8.4.6. India
 - 8.4.6.1. Market size and forecast
- 8.4.7. South Korea
- 8.4.7.1. Market size and forecast
- 8.4.8. Rest of Asia-Pacific
 - 8.4.8.1. Market size and forecast
- 8.5. LAMEA
 - 8.5.1. Introduction
 - 8.5.2. Key market trends, growth factors and opportunities
 - 8.5.3. Market size and forecast
 - 8.5.4. Latin America
 - 8.5.4.1. Market size and forecast
 - 8.5.5. Middle East
 - 8.5.5.1. Market size and forecast
 - 8.5.6. Africa
 - 8.5.6.1. Market size and forecast

CHAPTER: 9 RELATED INDUSTRY INSIGHTS

CHAPTER: 10 COMPANY PROFILES

- 10.1. AMKOR TECHNOLOGY INC.
 - 10.1.1. Company overview
 - 10.1.2. Operating business segments
 - 10.1.3. Business performance
 - 10.1.4. Key strategic moves and developments
- 10.2. FUJITSU LTD
 - 10.2.1. Company overview
 - 10.2.2. Operating business segments
 - 10.2.3. Business performance
 - 10.2.4. Key strategic moves and developments
- 10.3. TOSHIBA CORPORATION
 - 10.3.1. Company overview
 - 10.3.2. Operating business segments
 - 10.3.3. Business performance
 - 10.3.4. Key strategic moves and developments
- 10.4. QUALCOMM INC.



- 10.4.1. Company overview
- 10.4.2. Operating business segments
- 10.4.3. Business performance
- 10.4.4. Key strategic moves and developments
- 10.5. RENESAS ELECTRONICS CORPORATION
 - 10.5.1. Company overview
 - 10.5.2. Business performance
 - 10.5.3. Key strategic moves and developments
- 10.6. SAMSUNG ELECTRONICS CO LTD
 - 10.6.1. Company overview
 - 10.6.2. Business performance
 - 10.6.3. Key strategic moves and developments
- 10.7. JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD.
 - 10.7.1. Company overview
 - 10.7.2. Operating business segments
 - 10.7.3. Business performance
 - 10.7.4. Key strategic moves and developments
- 10.8. CHIPMOS TECHNOLOGIES INC.
 - 10.8.1. Company overview
 - 10.8.2. Operating business segments
 - 10.8.3. Business performance
 - 10.8.4. Key strategic moves and developments
- 10.9. POWERTECH TECHNOLOGIES INC.
 - 10.9.1. Company overview
 - 10.9.2. Operating business segments
 - 10.9.3. Business performance
 - 10.9.4. Key strategic moves and developments
- 10.10. ASE GROUP
 - 10.10.1. Company overview
 - 10.10.2. Operating business segments
 - 10.10.3. Business performance
 - 10.10.4. Key strategic moves and developments



List Of Tables

LIST OF TABLES

- TABLE 1. GLOBAL SIP MARKET, BY PACKAGING TECHNOLOGY, 2014-2022 (\$MILLION)
- TABLE 2. 2-D IC PACKAGING IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 3. 2.5-D IC PACKAGING IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 4. 3-D IC PACKAGING IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 5. GLOBAL SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY PACKAGING TYPE, 2014-2022 (\$MILLION)
- TABLE 6. FLAT PACKAGES IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 7. PIN GRID ARRAYS IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 8. SURFACE MOUNT IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 9. SMALL OUTLINE PACKAGES IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 10. OTHERS MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 11. GLOBAL SIP MARKET, BY INTERCONNECTION TECHNOLOGY, 2014-2022 (\$MILLION)
- TABLE 12. WIRE BOND IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 13. FLIP CHIP IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 14. SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY APPLICATION, 2014-2022 (\$MILLION)
- TABLE 15. CONSUMER ELECTRONICS IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 16. AUTOMOTIVE IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 17. TELECOMMUNICATIONS IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 18. INDUSTRIAL SYSTEM IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 19. AEROSPACE & DEFENSE IN SIP MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 20. OTHERS MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)



- TABLE 21. SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET, BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 22. NORTH AMERICAN SIP MARKET, BY PACKAGING TECHNOLOGY, 2014-2022 (\$MILLION)
- TABLE 23. NORTH AMERICAN SIP MARKET, BY PACKAGING TYPE, 2014-2022 (\$MILLION)
- TABLE 24. NORTH AMERICAN SIP MARKET, BY APPLICATION, 2014-2022 (\$MILLION)
- TABLE 25. NORTH AMERICAN SIP MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 26. EUROPEAN SIP MARKET, BY PACKAGING TECHNOLOGY, 2014-2022 (\$MILLION)
- TABLE 27. EUROPEAN SIP MARKET, BY PACKAGING TYPE, 2014-2022 (\$MILLION)
- TABLE 28. EUROPEAN SIP MARKET, BY APPLICATION, 2014-2022 (\$MILLION)
- TABLE 29. EUROPEAN SIP MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 30. ASIA-PACIFIC SIP MARKET, BY PACKAGING TECHNOLOGY, 2014-2022 (\$MILLION)
- TABLE 31. ASIA-PACIFIC SIP MARKET, BY PACKAGING TYPE, 2014-2022 (\$MILLION)
- TABLE 32. ASIA-PACIFIC SIP MARKET, BY APPLICATION, 2014-2022 (\$MILLION)
- TABLE 33. ASIA-PACIFIC SIP MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 34. LAMEA SIP MARKET, BY PACKAGING TECHNOLOGY, 2014-2022 (\$MILLION)
- TABLE 35. LAMEA SIP MARKET, BY PACKAGING TYPE, 2014-2022 (\$MILLION)
- TABLE 36. LAMEA SIP MARKET, BY APPLICATION, 2014-2022 (\$MILLION)
- TABLE 37. LAMEA SIP MARKET, BY COUNTRY, 2014-2022 (\$MILLION)
- TABLE 38. AMKOR TECHNOLOGY INC.: COMPANY SNAPSHOT
- TABLE 39. AMKOR TECHNOLOGY INC.: OPERATING SEGMENTS
- TABLE 40. FUJITSU LTD: COMPANY SNAPSHOT
- TABLE 41. FUJITSU LTD: OPERATING SEGMENTS
- TABLE 42. TOSHIBA CORPORATION: COMPANY SNAPSHOT
- TABLE 43. TOSHIBA CORPORATION: OPERATING SEGMENTS
- TABLE 44. QUALCOMM INC.: COMPANY SNAPSHOT
- TABLE 45. QUALCOMM INC.: OPERATING SEGMENTS
- TABLE 46. RENESAS ELECTRONICS CORPORATION: COMPANY SNAPSHOT
- TABLE 47. SAMSUNG ELECTRONICS CO LTD: COMPANY SNAPSHOT
- TABLE 48. JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD.: COMPANY SNAPSHOT
- TABLE 49. JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD.: OPERATING SEGMENTS



TABLE 50. CHIPMOS TECHNOLOGIES INC.: COMPANY SNAPSHOT

TABLE 51. CHIPMOS TECHNOLOGIES INC.: OPERATING SEGMENTS

TABLE 52. POWERTECH TECHNOLOGIES INC.: COMPANY SNAPSHOT

TABLE 53. POWERTECH TECHNOLOGIES INC.: OPERATING SEGMENTS

TABLE 54. ASE GROUP: COMPANY SNAPSHOT

TABLE 55. ASE GROUP: OPERATING SEGMENTS



List Of Figures

LIST OF FIGURES

FIGURE 1. SEGMENTATIONS

FIGURE 2. TOP IMPACTING FACTORS

FIGURE 3. TOP WINNING STRATEGIES: PERCENTAGE DISTRIBUTION (2013-2016)

FIGURE 4. TOP WINNING STRATEGIES: NATURE AND TYPE

FIGURE 5. TOP INVESTMENT POCKETS IN GLOBAL SYSTEM IN PACKAGE (SIP)

TECHNOLOGY MARKET, BY APPLICATION

FIGURE 6. PORTERS FIVE FORCES ANALYSIS

FIGURE 7. MARKET SHARE ANALYSIS, 2015

FIGURE 8. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL

2-D IC PACKAGING IN SIP MARKET, 2015 & 2022 (%)

FIGURE 9. MARKET REVENUE & FORECAST OF GLOBAL 2-D IC PACKAGING IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 10. GLOBAL 2-D IC PACKAGING IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 11. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL 2.5-D IC PACKAGING IN SIP MARKET, 2015 & 2022 (%)

FIGURE 12. MARKET REVENUE & FORECAST OF GLOBAL 2.5-D IC PACKAGING IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 13. GLOBAL 2.5-D IC PACKAGING IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 14. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL 3-D IC PACKAGING IN SIP MARKET, 2015 & 2022 (%)

FIGURE 15. MARKET REVENUE & FORECAST OF GLOBAL 3-D IC PACKAGING IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 16. GLOBAL 3-D IC PACKAGING IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 17. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL FLAT PACKAGES IN SIP MARKET, 2015 & 2022 (%)

FIGURE 18. MARKET REVENUE & FORECAST OF GLOBAL FLAT PACKAGES IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 19. GLOBAL FLAT PACKAGES IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 20. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL PIN GRID ARRAYS IN SIP MARKET, 2015 & 2022 (%)



FIGURE 21. MARKET REVENUE & FORECAST OF GLOBAL PIN GRID ARRAYS IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 22. GLOBAL PIN GRID ARRAYS IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 23. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL SURFACE MOUNT IN SIP MARKET, 2015 & 2022 (%)

FIGURE 24. MARKET REVENUE & FORECAST OF GLOBAL SURFACE MOUNT IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 25. GLOBAL SURFACE MOUNT IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 26. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL SMALL OUTLINE PACKAGES IN SIP MARKET, 2015 & 2022 (%)

FIGURE 27. MARKET REVENUE & FORECAST OF GLOBAL SMALL OUTLINE PACKAGES IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 28. GLOBAL SMALL OUTLINE PACKAGES IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 29. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL OTHERS MARKET, 2015 & 2022 (%)

FIGURE 30. MARKET REVENUE & FORECAST OF GLOBAL OTHERS MARKET, 2014-2022 (\$MILLION)

FIGURE 31. GLOBAL OTHERS MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 32. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL WIRE BOND IN SIP MARKET, 2015 & 2022 (%)

FIGURE 33. MARKET REVENUE & FORECAST OF GLOBAL WIRE BOND IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 34. GLOBAL WIRE BOND IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 35. COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF GLOBAL FLIP CHIP IN SIP MARKET, 2015 & 2022 (%)

FIGURE 36. MARKET REVENUE & FORECAST OF GLOBAL FLIP CHIP IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 37. GLOBAL FLIP CHIP IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 38. COMPARATIVE REGIONAL SHARE ANALYSIS OF GLOBAL CONSUMER ELECTRONICS IN SIP MARKET, 2015 & 2022 (%)

FIGURE 39. GLOBAL CONSUMER ELECTRONICS IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 40. GLOBAL CONSUMER ELECTRONICS IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)



FIGURE 41. COMPARATIVE REGIONAL ANALYSIS OF GLOBAL AUTOMOTIVE IN SIP MARKET, 2015 & 2022 (%)

FIGURE 42. GLOBAL AUTOMOTIVE IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 43. GLOBAL AUTOMOTIVE IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 44. COMPARATIVE REGIONAL SHARE ANALYSIS OF GLOBAL

TELECOMMUNICATIONS IN SIP MARKET, 2015 & 2022 (%)

FIGURE 45. GLOBAL TELECOMMUNICATIONS IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 46. GLOBAL TELECOMMUNICATIONS IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 47. COMPARATIVE REGIONAL SHARE ANALYSIS OF GLOBAL INDUSTRIAL SYSTEM IN SIP MARKET, 2015 & 2022 (%)

FIGURE 48. GLOBAL INDUSTRIAL SYSTEM IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 49. GLOBAL INDUSTRIAL SYSTEM IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 50. COMPARATIVE REGIONAL SHARE ANALYSIS OF GLOBAL AEROSPACE & DEFENSE IN SIP MARKET, 2015 & 2022 (%)

FIGURE 51. GLOBAL AEROSPACE & DEFENSE IN SIP MARKET, 2014-2022 (\$MILLION)

FIGURE 52. AEROSPACE & DEFENSE IN SIP MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 53. COMPARATIVE REGIONAL SHARE ANALYSIS OF GLOBAL OTHERS MARKET, 2015 & 2022 (%)

FIGURE 54. GLOBAL OTHERS MARKET, 2014-2022 (\$MILLION)

FIGURE 55. GLOBAL OTHERS MARKET ANALYSIS, 2015 & 2022 (\$MILLION)

FIGURE 56. U.S. SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 57. CANADA SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 58. MEXICO SYSTEM IN PACKAGE (SIP) TECHNOLOGY MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 59. UK SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 60. GERMANY SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 61. FRANCE SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 62. REST OF EUROPE SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 63. CHINA: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 64. JAPAN: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 65. INDIA: SIP MARKET SIZE, 2014-2022 (\$MILLION)



FIGURE 66. SOUTH KOREA: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 67. REST OF ASIA-PACIFIC: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 68. LATIN AMERICA: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 69. MIDDLE EAST: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 70. AFRICA: SIP MARKET SIZE, 2014-2022 (\$MILLION)

FIGURE 71. AMKOR TECHNOLOGY INC.: COMPANY SNAPSHOT

FIGURE 72. FUJITSU LTD: COMPANY SNAPSHOT

FIGURE 73. TOSHIBA CORPORATION: COMPANY SNAPSHOT

FIGURE 74. QUALCOMM INC.: COMPANY SNAPSHOT

FIGURE 75. RENESAS ELECTRONICS: COMPANY SNAPSHOT

FIGURE 76. SAMSUNG ELECTRONICS CO. LTD.: COMPANY SNAPSHOT

FIGURE 77. JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO. LTD.:

COMPANY SNAPSHOT

FIGURE 78. CHIPMOS TECHNOLOGIES INC.: COMPANY SNAPSHOT

FIGURE 79. POWERTECH TECHNOLOGIES INC.: COMPANY SNAPSHOT

FIGURE 80. ASE GROUP: COMPANY SNAPSHOT



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