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DRAM Module and Component Market by Type (LPDRAM, DDR5, DDR4, DDR3, GDDR, HBM), End-User Industries (Server, Mobile Devices, Computers, Consumer Electronics, Automobiles), Memory (above 8GB, 6-8GB, 3-4GB, 2GB) and Geography - Global Forecast to 2027

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Abstracts

The global DRAM module and components market was valued at USD 94.9 billion in 2021 and is expected to reach USD 110.7 billion by 2027, at a CAGR of 1.2% during the forecast period from 2022 to 2027. The key factors driving the growth of the DRAM module and components market include emergence of 5G technology, growth in demand for DRAM module and components in automotive sector, growth in adoption of high-end smartphones, and others.

The outbreak of COVID-19 has severely impacted the supply chain of mobile devices, computers, and consumer electronics, which are the leading end-user industries of the DRAM module and components market. Lockdowns and suspension of manufacturing operations have further hampered economic growth and upended the global semiconductor industry and created a major chip shortage, affecting automobiles, computers, and other industries worldwide. Nevertheless, with this shortage comes the opportunity for investments and the emergence of new players in the semiconductor industry; semiconductor producers are now scrambling to increase production.

DDR5 segment to account for the highest growth rate in DRAM module and components market during the forecast period

DDR5 DRAMs in by type segment od DRAM module and components market is

expected to grow with the highest CAGR during the forecast period. DDR5 DRAM is the fastest SDRAM available today and is perfect for PC enthusiasts, hardcore gamers, and content creators looking for next-level performance, increased capacity, and maximum power efficiency. Therefore, the demand is more.

6-8 GB memory segment holds the largest market share in 2021

The 6–8GB memory segment in the DRAM module and components market has the largest market share in 2021 and is expected to increase more during the forecast period owing to increasing applications in desktops, mid- to high-range laptops, latest smartphones, and tablets.

US to account for the largest share of DRAM module and components market in North America during the forecast period

US is expected to be the largest market of DRAM module and components in North America. The region is the principal base for all memory technology manufacturers. The region is an important hub of the computer industry and has strong R&D support with significant financial backing, resulting in heavy memory consumption. The region is a major center for consumer electronics such as smart home devices, smart wearables, and gaming consoles. The presence of some of the prominent players for DRAM module and components, such as Micron Technology, Inc., Kingston Technology Corporation, and SMART Modular Technologies, is one of the key drivers for the growth of the DRAM module and components market in the region.

Breakdown of primary participants:

By Company Type: Tier 1 = 38%, Tier 2 = 28%, and Tier 3 = 34%

By Designation: C-Level Executives = 40%, Directors = 30%, and Others = 30%

By Region: North America = 35%, Europe = 20%, APAC = 35%, and RoW = 10%

Some of the key companies operating in the DRAM module and components market are Samsung Electronics Co., Ltd. (South Korea), SK Hynix Inc. (South Korea), Micron Technology, Inc. (US), Nanya Technology Corporation (Taiwan), Winbond Electronics Corporation (Taiwan), Powerchip Technology Corporation (Taiwan), ADATA

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Technology Co. Ltd. (Taiwan), Ramaxel Technology (Shenzhen) Co, Ltd (China), Kingston Technology Corporation (US), SMART Modular Technologies (US), and so on.

Research Coverage:

In this report, the DRAM module and components market has been segmented on the basis of type, memory, end-user industries, and geography. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—North America, Europe, APAC, and RoW. Value chain analysis has been included in the report, along with the key players and their competitive analysis in the DRAM module and components ecosystem.

Key Benefits to Buy the Report:

This report includes statistics for the DRAM module and components market based on type, memory, end-user industries, and geography, along with their respective market sizes.

Value chain analysis and key industry trends have been provided for the market.

Major drivers, restraints, opportunities, and challenges for the DRAM module and components market have been provided in detail in this report.

This report would help stakeholders to understand their competitors better and gain more insights to enhance their position in the market. The competitive landscape section includes the competitor ecosystem and the recent development strategies adopted by the key players in the market, such as product launches/developments, contracts/collaborations/agreements/acquisitions.

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Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES
1.2 MARKET DEFINITION
1.3 SCOPE OF STUDY
  1.3.1 MARKETS COVERED
FIGURE 1 MARKET SEGMENTATION
  1.3.2 GEOGRAPHIC SCOPE
  1.3.3 YEARS CONSIDERED
  1.3.4 INCLUSIONS AND EXCLUSIONS
1.4 CURRENCY
1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA
FIGURE 2 RESEARCH DESIGN
  2.1.1 SECONDARY & PRIMARY RESEARCH
    2.1.1.1 Key industry insights
  2.1.2 SECONDARY DATA
    2.1.2.1 List of major secondary sources
    2.1.2.2 Secondary sources
  2.1.3 PRIMARY DATA
    2.1.3.1 Breakdown of primaries
    2.1.3.2 Primary interviews with experts
    2.1.3.3 Key data from primary sources
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
    2.2.2.1 Approach for capturing market size from supply side
FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
2.3 MARKET BREAKDOWN & DATA TRIANGULATION
FIGURE 5 DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS
  2.4.1 LIMITATIONS
2.5 RISK ASSESSMENT

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3 EXECUTIVE SUMMARY

3.1 COVID-19 IMPACT ANALYSIS
FIGURE 6 IMPACT OF COVID-19 ON GLOBAL DRAM MODULE AND COMPONENTS MARKET
FIGURE 7 ABOVE 8GB MEMORY SEGMENT TO HOLD LARGEST SIZE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
FIGURE 8 LPDRAM MODULE AND COMPONENT TO HOLD LARGEST SHARE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
FIGURE 9 LP DDR5 TO HOLD LARGEST SHARE OF LPDRAM MODULE AND COMPONENT IN DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
FIGURE 10 SERVERS SEGMENT TO HOLD LARGER SHARE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
FIGURE 11 DRAM MODULE AND COMPONENTS MARKET IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 MAJOR OPPORTUNITIES IN DRAM MODULE AND COMPONENTS MARKET
FIGURE 12 DRAM MODULE AND COMPONENTS MARKET TO REGISTER HIGHEST CAGR IN APAC DURING FORECAST PERIOD
4.2 DRAM MODULE AND COMPONENTS MARKET, BY TYPE
FIGURE 13 DRAM MODULE AND COMPONENTS MARKET FOR DDR5 TO EXHIBIT HIGHEST CAGR DURING FORECAST PERIOD
4.3 DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES
FIGURE 14 DRAM MODULE AND COMPONENTS MARKET FOR AUTOMOBILES TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD
4.4 DRAM MODULE AND COMPONENTS MARKET IN APAC, BY TYPE AND COUNTRY
FIGURE 15 LPDRAM MODULE AND COMPONENT AND CHINA HELD LARGEST SHARES OF DRAM MODULE AND COMPONENTS MARKET IN APAC IN 2021
4.5 DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY
FIGURE 16 CHINA DOMINATED DRAM MODULE AND COMPONENTS MARKET IN 2021

5 MARKET OVERVIEW

+44 20 8123 2220
info@marketpublishers.com

5.1 INTRODUCTION
5.2 MARKET DYNAMICS
FIGURE 17 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES FOR DRAM MODULE AND COMPONENTS MARKET
5.2.1 DRIVERS
5.2.1.1 Emergence of 5G technology
FIGURE 18 INTERNET USERS' DISTRIBUTION TILL MARCH 31, 2021, BY REGION
FIGURE 19 SMARTPHONE PENETRATION RATE, 2020, BY REGION
5.2.1.2 Growth in demand for DRAM module and components in automotive sector
5.2.1.3 Growth in adoption of high-end smartphones
5.2.1.4 Increase in number of data centers due to rising adoption of cloud platforms
FIGURE 20 IMPACT ANALYSIS OF DRIVERS ON DRAM MODULE AND COMPONENTS MARKET
5.2.2 RESTRAINTS
5.2.2.1 Lack of stability under extreme environmental conditions
FIGURE 21 IMPACT ANALYSIS OF RESTRAINTS ON DRAM MODULE AND COMPONENTS MARKET
5.2.3 OPPORTUNITIES
5.2.3.1 Government initiatives to support in-house semiconductor production
5.2.3.2 Increasing adoption of Internet of Things devices
FIGURE 22 IMPACT ANALYSIS OF OPPORTUNITIES ON DRAM MODULE AND COMPONENTS MARKET
5.2.4 CHALLENGES
5.2.4.1 US-China trade war and impact of COVID-19
5.2.4.2 Highly volatile pricing nature of DRAM module and components
FIGURE 23 IMPACT ANALYSIS OF CHALLENGES ON DRAM MODULE AND COMPONENTS MARKET
5.3 VALUE CHAIN ANALYSIS
FIGURE 24 DRAM MODULE AND COMPONENTS MARKET: VALUE CHAIN
TABLE 1 DRAM MODULE AND COMPONENTS MARKET: ECOSYSTEM
5.4 REVENUE SHIFT AND NEW REVENUE POCKETS FOR MARKET PLAYERS
FIGURE 25 REVENUE SHIFT IN DRAM MODULE AND COMPONENTS MARKET
5.5 DRAM MODULE AND COMPONENTS MARKET EVOLUTION
FIGURE 26 DRAM SPEED AND DENSITY EVOLUTION
5.6 PORTER'S FIVE FORCES ANALYSIS
TABLE 2 DRAM MODULE AND COMPONENTS MARKET: PORTER'S FIVE FORCES ANALYSIS
FIGURE 27 PORTER'S FIVE FORCES ANALYSIS
5.6.1 THREAT OF NEW ENTRANTS

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5.6.2 THREAT OF SUBSTITUTES
5.6.3 BARGAINING POWER OF SUPPLIERS
5.6.4 BARGAINING POWER OF BUYERS
5.6.5 INTENSITY OF COMPETITIVE RIVALRY
5.7 TECHNOLOGY ANALYSIS: DRAM TECHNOLOGY NODE BY KEY PLAYERS
5.8 AVERAGE SELLING PRICE ANALYSIS
FIGURE 28 DRAM MODULE AND COMPONENTS MARKET: AVERAGE SELLING PRICE
5.9 TRADE ANALYSIS
5.9.1 IMPORTS SCENARIO
TABLE 3 IMPORTS DATA, BY COUNTRY, 2017–2020 (USD MILLION)
5.9.2 EXPORTS SCENARIO
TABLE 4 EXPORTS DATA, BY COUNTRY, 2017–2020 (USD MILLION)
5.10 PATENTS ANALYSIS
FIGURE 29 NUMBER OF PATENTS GRANTED WORLDWIDE FROM 2011 TO 2021
TABLE 5 TOP 20 PATENT OWNERS IN US FROM 2011 TO 2021
5.11 KEY CONFERENCES & EVENTS IN 2022–2023
TABLE 6 DRAM MODULE AND COMPONENTS MARKET: DETAILED LIST OF CONFERENCES & EVENTS
5.12 TARIFF AND REGULATORY LANDSCAPE
5.12.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
TABLE 7 LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
5.12.2 TARIFFS AND REGULATIONS
5.12.2.1 Tariffs
5.12.2.2 Regulations
5.13 KEY STAKEHOLDERS & BUYING CRITERIA
5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS
TABLE 8 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 END-USER INDUSTRIES (%)
5.13.2 BUYING CRITERIA
TABLE 9 KEY BUYING CRITERIA FOR TOP 3 END-USER INDUSTRIES

6 DRAM MODULE AND COMPONENTS MARKET, BY TYPE

6.1 INTRODUCTION
FIGURE 30 DRAM MODULE AND COMPONENTS MARKET: BY TYPE
FIGURE 31 LPDRAM MODULE AND COMPONENT SEGMENT TO HOLD LARGEST

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SHARE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
TABLE 10 DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 11 DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2022–2027 (USD MILLION)
6.2 DDR2 DRAM (DOUBLE DATA RATE TWO DRAM)
6.2.1 REDUCED OPERATING VOLTAGE LEADS TO LOWER POWER CONSUMPTION AND HIGHER OPERATING SPEED
TABLE 12 DDR2 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
6.3 DDR3 DRAM (DOUBLE DATA RATE THREE DRAM)
6.3.1 AUTOMATIC SELF-REFRESH AND SELF-REFRESH TEMPERATURE ENHANCE DRAM'S PERFORMANCE
TABLE 13 DDR3 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 14 DDR3 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
6.4 DDR4 DRAM (DOUBLE DATA RATE FOURTH DRAM)
6.4.1 ENHANCED EFFICIENCY, SIGNAL INTEGRITY, AND STABILITY OF DATA TRANSMISSION/ACCESS TO FUEL MARKET GROWTH
TABLE 15 DDR4 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 16 DDR4 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
6.5 DDR5 DRAM (DOUBLE DATA RATE FIFTH DRAM)
6.5.1 POWER MANAGEMENT INTEGRATED CIRCUIT ENSURES LOW WASTE OF POWER ON DUAL IN-LINE MEMORY MODULES
TABLE 17 DDR5 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 18 DDR5 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
6.6 LPDRAM (LOW-POWER DRAM) MODULE AND COMPONENT
6.6.1 INCREASE IN DEMAND FOR MOBILE DEVICES CREATES HIGH DEMAND FOR LOW-POWER DYNAMIC RANDOM-ACCESS MEMORY
TABLE 19 LPDRAM DRAM MODULE AND COMPONENT MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 20 LPDRAM DRAM MODULE AND COMPONENT MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)

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TABLE 21 LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 22 LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 23 LP DDR2 MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 24 LP DDR3 MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 25 LP DDR3 MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
TABLE 26 LP DDR4 MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 27 LP DDR4 MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
TABLE 28 LP DDR5 MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 29 LP DDR5 MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
6.7 HBM (HIGH-BANDWIDTH MEMORY)
6.7.1 DEMAND FOR HIGH-BANDWIDTH MEMORY IN GRAPHICS CARDS AND HIGH PROCESSING COMPUTING APPLICATIONS DRIVING MARKET GROWTH
TABLE 30 HBM DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 31 HBM DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
6.8 GDDR (GRAPHICAL DUAL DATA RATE)
6.8.1 RISE IN USE OF DATA-INTENSIVE SYSTEMS DRIVES MARKET GROWTH
TABLE 32 GDDR DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 33 GDDR DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
6.9 OTHERS
TABLE 34 OTHERS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 35 OTHERS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)

7 DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES

7.1 INTRODUCTION
FIGURE 32 DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES
FIGURE 33 SERVERS TO HOLD LARGEST SHARE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
TABLE 36 DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2018–2021 (USD MILLION)

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info@marketpublishers.com

TABLE 37 DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2022–2027 (USD MILLION)
7.2 CONSUMER ELECTRONICS
7.2.1 GROWING ADOPTION OF SMART CONSUMER ELECTRONICS FUELING MARKET GROWTH
TABLE 38 CONSUMER ELECTRONICS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 39 CONSUMER ELECTRONICS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
7.3 SERVERS
7.3.1 REQUIREMENT OF INCREASED DRAM PER SERVER IS DRIVING MARKET GROWTH
TABLE 40 SERVERS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 41 SERVERS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
7.4 MOBILE DEVICES
7.4.1 INCREASE IN APPLICATIONS OF HIGH-PERFORMANCE AND LOW-POWER DRAMS IN MOBILE DEVICES TO BOOST MARKET GROWTH
TABLE 42 MOBILE DEVICES DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 43 MOBILE DEVICES DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
7.5 AUTOMOBILES
7.5.1 INTELLIGENT TRANSPORTATION TRENDS ARE FUELING GROWTH OF DRAM MODULE AND COMPONENTS MARKET
TABLE 44 AUTOMOBILES DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 45 AUTOMOBILES DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
7.6 COMPUTERS
7.6.1 DRAM MODULE AND COMPONENTS FIND MAJOR APPLICATIONS IN MODERN DESKTOPS AND LAPTOPS
TABLE 46 COMPUTERS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 47 COMPUTERS DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
7.7 OTHERS
TABLE 48 OTHERS: DRAM MODULE AND COMPONENTS MARKET, BY

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GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 49 OTHERS: DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)

8 DRAM MODULE AND COMPONENTS MARKET, BY MEMORY

8.1 INTRODUCTION
FIGURE 34 DRAM MODULE AND COMPONENTS MARKET: BY MEMORY
FIGURE 35 ABOVE 8GB SEGMENT TO HOLD LARGEST SHARE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
TABLE 50 DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 51 DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
TABLE 52 SERVER DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 53 SERVER DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
TABLE 54 MOBILE DEVICES DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 55 MOBILE DEVICES DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
8.2 UP TO 1GB
8.2.1 GROWTH IN SMART HOME APPLICATIONS BOOSTS DEMAND FOR DRAM ASSOCIATED WITH SYSTEMS-ON-CHIPS
TABLE 56 UP TO 1GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 57 UP TO 1GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
8.3 2GB
8.3.1 INCREASE IN DEMAND FOR BUDGET MOBILE DEVICES IN DEVELOPING COUNTRIES FUELING MARKET GROWTH
TABLE 58 2GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 59 2GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
8.4 3–4GB
8.4.1 3–4GB DRAM IS CONSIDERED A BENCHMARK FOR LOW-END OFFICE PCS AND MID-RANGE MOBILE DEVICES

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TABLE 60 3–4GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 61 3–4GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
8.5 6–8GB
8.5.1 DEMAND FOR PHOTO OR VIDEO EDITING ENABLED COMPUTERS BOOSTS MARKET GROWTH
TABLE 62 6–8GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 63 6–8GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
8.6 ABOVE 8GB
8.6.1 REQUIREMENT FOR LARGER DRAMS TO RUN RESOURCE-HEAVY APPLICATIONS EXPECTED TO FUEL MARKET GROWTH
TABLE 64 ABOVE 8GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 65 ABOVE 8GB DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)

9 GEOGRAPHIC ANALYSIS

9.1 INTRODUCTION
FIGURE 36 DRAM MODULE AND COMPONENTS MARKET: BY REGION
FIGURE 37 APAC TO HOLD LARGEST SHARE OF DRAM MODULE AND COMPONENTS MARKET DURING FORECAST PERIOD
TABLE 66 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 67 DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
9.2 NORTH AMERICA
FIGURE 38 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY
FIGURE 39 NORTH AMERICA: SNAPSHOT OF DRAM MODULE AND COMPONENTS MARKET
TABLE 68 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2018–2021 (USD MILLION)
TABLE 69 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2022–2027 (USD MILLION)
TABLE 70 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY

TYPE, 2018–2021 (USD MILLION)
TABLE 71 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 72 NORTH AMERICA: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 73 NORTH AMERICA: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 74 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 75 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
TABLE 76 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY, 2018–2021 (USD MILLION)
TABLE 77 NORTH AMERICA: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)
9.2.1 NORTH AMERICA: IMPACT OF COVID-19 ON DRAM MODULE AND COMPONENTS MARKET
FIGURE 40 ANALYSIS OF DRAM MODULE AND COMPONENTS MARKET IN NORTH AMERICA: PRE- AND POST-COVID-19 SCENARIOS
9.2.2 US
9.2.2.1 Advanced technologies are boosting DRAM module and components market growth
9.2.3 CANADA
9.2.3.1 Government initiatives to support semiconductor market are fueling DRAM module and components market growth
9.2.4 MEXICO
9.2.4.1 Government initiatives and political stability are contributing to market growth
9.3 EUROPE
FIGURE 41 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY
FIGURE 42 EUROPE: SNAPSHOT OF DRAM MODULE AND COMPONENTS MARKET
TABLE 78 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2018–2021 (USD MILLION)
TABLE 79 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2022–2027 (USD MILLION)
TABLE 80 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 81 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY TYPE,

2022–2027 (USD MILLION)
TABLE 82 EUROPE: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 83 EUROPE: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 84 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 85 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
TABLE 86 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY, 2018–2021 (USD MILLION)
TABLE 87 EUROPE: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY, 2022–2027 (USD MILLION)
9.3.1 EUROPE: IMPACT OF COVID-19 ON DRAM MODULE AND COMPONENTS MARKET
FIGURE 43 ANALYSIS OF DRAM MODULE AND COMPONENTS MARKET IN EUROPE:
PRE- AND POST-COVID-19 SCENARIOS
9.3.2 UK
9.3.2.1 UK is the largest market for mobile devices and consumer electronics in Europe
9.3.3 GERMANY
9.3.3.1 Increase in number of data centers fueling market growth for DRAM module and components market
9.3.4 FRANCE
9.3.4.1 Government efforts to promote future technologies to boost market growth
9.3.5 ITALY
9.3.5.1 Growing use of mobile devices, consumer electronics, and automotive are major contributors to market growth
9.3.6 REST OF EUROPE
9.4 ASIA PACIFIC (APAC)
FIGURE 44 APAC: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY
FIGURE 45 APAC: SNAPSHOT OF DRAM MODULE AND COMPONENTS MARKET
TABLE 88 APAC: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2018–2021 (USD MILLION)
TABLE 89 APAC: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2022–2027 (USD MILLION)
TABLE 90 APAC: DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 91 APAC: DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 92 APAC: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 93 APAC: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 94 APAC: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 95 APAC: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
TABLE 96 APAC: DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 97 APAC: DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
9.4.1 APAC: IMPACT OF COVID-19 ON DRAM MODULE AND COMPONENTS MARKET
FIGURE 46 ANALYSIS OF DRAM MODULE AND COMPONENTS MARKET IN APAC: PRE- AND POST-COVID-19 SCENARIOS
9.4.2 CHINA
9.4.2.1 Demand for mobile devices and wearable electronics devices would continue to drive the growth of the domestic DRAM module and components market
9.4.3 JAPAN
9.4.3.1 Increasing demand for memory products across different industries driving market growth
9.4.4 INDIA
9.4.4.1 Rising number of data centers is boosting market growth
9.4.5 SOUTH KOREA
9.4.5.1 Presence of top two global manufacturers of DRAM module and components is driving market growth
9.4.6 REST OF APAC
9.5 REST OF THE WORLD (ROW)
FIGURE 47 ROW: DRAM MODULE AND COMPONENTS MARKET, BY COUNTRY
TABLE 98 ROW: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2018–2021 (USD MILLION)
TABLE 99 ROW: DRAM MODULE AND COMPONENTS MARKET, BY END-USER INDUSTRIES, 2022–2027 (USD MILLION)
TABLE 100 ROW: DRAM MODULE AND COMPONENTS MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 101 ROW: DRAM MODULE AND COMPONENTS MARKET, BY TYPE,

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2022–2027 (USD MILLION)
TABLE 102 ROW: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2018–2021 (USD MILLION)
TABLE 103 ROW: LPDRAM MODULE AND COMPONENT MARKET, BY TYPE, 2022–2027 (USD MILLION)
TABLE 104 ROW: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2018–2021 (USD MILLION)
TABLE 105 ROW: DRAM MODULE AND COMPONENTS MARKET, BY MEMORY, 2022–2027 (USD MILLION)
TABLE 106 ROW: DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2018–2021 (USD MILLION)
TABLE 107 ROW: DRAM MODULE AND COMPONENTS MARKET, BY GEOGRAPHY, 2022–2027 (USD MILLION)
9.5.1 ROW: IMPACT OF COVID-19 ON DRAM MODULE AND COMPONENTS MARKET
FIGURE 48 ANALYSIS OF DRAM MODULE AND COMPONENTS MARKET IN ROW: PRE- AND POST-COVID-19 SCENARIOS
9.5.2 SOUTH AMERICA
9.5.2.1 DRAM module and components will witness decent growth due to increasing demand for cloud storage and data centers
9.5.3 MIDDLE EAST & AFRICA (MEA)
9.5.3.1 Rapid urbanization results in growing demand for memory storage devices

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW
10.2 KEY PLAYER STRATEGIES/RIGHT TO WIN
TABLE 108 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN DRAM MODULE AND COMPONENTS MARKET
10.3 REVENUE ANALYSIS OF TOP PLAYERS
FIGURE 49 5-YEAR REVENUE ANALYSIS OF TOP PLAYERS IN DRAM MODULE AND COMPONENTS MARKET, 2017–2021
10.4 MARKET SHARE ANALYSIS OF KEY PLAYERS IN DRAM MODULE AND COMPONENTS MARKET IN 2021
FIGURE 50 MARKET SHARE ANALYSIS OF KEY PLAYERS IN DRAM MODULE AND COMPONENTS MARKET IN 2021
TABLE 109 DRAM MODULE AND COMPONENTS MARKET: DEGREE OF COMPETITION
TABLE 110 DRAM MODULE AND COMPONENTS MARKET RANKING ANALYSIS

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10.5 COMPANY EVALUATION QUADRANT, 2021
10.5.1 STAR
10.5.2 EMERGING LEADER
10.5.3 PERVASIVE
10.5.4 PARTICIPANT
FIGURE 51 DRAM MODULE AND COMPONENTS MARKET (GLOBAL): COMPANY EVALUATION QUADRANT, 2021
10.6 COMPETITIVE BENCHMARKING
TABLE 111 COMPANY FOOTPRINT, BY TYPE (17 COMPANIES)
TABLE 112 COMPANY FOOTPRINT, BY END-USER INDUSTRIES (17 COMPANIES)
TABLE 113 COMPANY FOOTPRINT, BY GEOGRAPHY (17 COMPANIES)
TABLE 114 COMPANY PRODUCT FOOTPRINT
10.7 STARTUP/SME EVALUATION QUADRANT, 2021
10.7.1 PROGRESSIVE COMPANY
10.7.2 RESPONSIVE COMPANY
10.7.3 DYNAMIC COMPANY
10.7.4 STARTING BLOCK
FIGURE 52 DRAM MODULE AND COMPONENTS MARKET (GLOBAL): STARTUP/SME EVALUATION QUADRANT, 2021
TABLE 115 DRAM MODULE AND COMPONENTS MARKET: LIST OF KEY STARTUPS/SMES
TABLE 116 DRAM MODULE AND COMPONENTS MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES
10.8 COMPETITIVE SCENARIO AND TRENDS
10.8.1 PRODUCT LAUNCHES/DEVELOPMENTS
TABLE 117 DRAM MODULE AND COMPONENTS MARKET: PRODUCT LAUNCHES/DEVELOPMENTS, 2020–2022
10.8.2 DEALS
TABLE 118 DRAM MODULE AND COMPONENTS MARKET: DEALS, 2020–2022

11 COMPANY PROFILES

(Business Overview, Products/solutions/services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*
11.1 INTRODUCTION
11.2 KEY PLAYERS
11.2.1 SAMSUNG ELECTRONICS CO., LTD.
TABLE 119 SAMSUNG ELECTRONICS CO., LTD.: BUSINESS OVERVIEW

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FIGURE 53 SAMSUNG ELECTRONICS CO., LTD.: COMPANY SNAPSHOT
TABLE 120 SAMSUNG ELECTRONICS CO., LTD.: PRODUCT LAUNCHES
11.2.2 SK HYNIX INC.
TABLE 121 SK HYNIX INC.: BUSINESS OVERVIEW
FIGURE 54 SK HYNIX INC.: COMPANY SNAPSHOT
TABLE 122 SK HYNIX INC.: PRODUCT LAUNCHES
TABLE 123 SK HYNIX INC.: DEALS
11.2.3 MICRON TECHNOLOGY, INC.
TABLE 124 MICRON TECHNOLOGY, INC.: BUSINESS OVERVIEW
FIGURE 55 MICRON TECHNOLOGY, INC.: COMPANY SNAPSHOT
TABLE 125 MICRON TECHNOLOGY, INC.: PRODUCT LAUNCHES
TABLE 126 MICRON TECHNOLOGY, INC.: DEALS
11.2.4 NANYA TECHNOLOGY CORPORATION
TABLE 127 NANYA TECHNOLOGY CORPORATION: BUSINESS OVERVIEW
FIGURE 56 NANYA TECHNOLOGY CORPORATION: COMPANY SNAPSHOT
TABLE 128 NANYA TECHNOLOGY CORPORATION: DEALS
11.2.5 WINBOND ELECTRONICS CORPORATION
TABLE 129 WINBOND ELECTRONICS CORPORATION: BUSINESS OVERVIEW
FIGURE 57 WINBOND ELECTRONICS CORPORATION: COMPANY SNAPSHOT
TABLE 130 WINBOND ELECTRONICS CORPORATION: DEALS
11.2.6 POWERCHIP TECHNOLOGY CORPORATION
TABLE 131 POWERCHIP TECHNOLOGY CORPORATION: BUSINESS OVERVIEW
FIGURE 58 POWERCHIP TECHNOLOGY CORPORATION: COMPANY SNAPSHOT
11.2.7 ADATA TECHNOLOGY CO., LTD.
TABLE 132 ADATA TECHNOLOGY CO., LTD.: BUSINESS OVERVIEW
FIGURE 59 ADATA TECHNOLOGY CO., LTD.: COMPANY SNAPSHOT
TABLE 133 ADATA TECHNOLOGY CO., LTD.: PRODUCT LAUNCHES
11.2.8 RAMAXEL TECHNOLOGY (SHENZHEN) CO, LTD
TABLE 134 RAMAXEL TECHNOLOGY (SHENZHEN) CO, LTD: BUSINESS OVERVIEW
11.2.9 KINGSTON TECHNOLOGY CORPORATION
TABLE 135 KINGSTON TECHNOLOGY CORPORATION: BUSINESS OVERVIEW
TABLE 136 KINGSTON TECHNOLOGY CORPORATION: PRODUCT LAUNCHES
TABLE 137 KINGSTON TECHNOLOGY CORPORATION: DEALS
11.2.10 SMART MODULAR TECHNOLOGIES
TABLE 138 SMART MODULAR TECHNOLOGIES: BUSINESS OVERVIEW
FIGURE 60 SMART MODULAR TECHNOLOGIES: COMPANY SNAPSHOT
TABLE 139 SMART MODULAR TECHNOLOGIES: PRODUCT LAUNCHES
TABLE 140 SMART MODULAR TECHNOLOGIES: DEALS

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11.3 OTHER PLAYERS
11.3.1 SUPER MICRO COMPUTER, INC.
11.3.2 TRANSCEND INFORMATION, INC.
11.3.3 PATRIOT MEMORY
11.3.4 INNODISK CORPORATION
11.3.5 APACER TECHNOLOGY
11.3.6 ELITE SEMICONDUCTOR MICROELECTRONICS TECHNOLOGY INC.
11.3.7 INTEGRATED SILICON SOLUTION INC.
11.3.8 ETRON TECHNOLOGY, INC.
11.3.9 FIDELIX CO., LTD.
11.3.10 ROHM CO., LTD.
11.3.11 TEAM GROUP INC.
*Details on Business Overview, Products/solutions/services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE
12.2 KNOWLEDGE STORE: MARKETSANDMARKETS’ SUBSCRIPTION PORTAL
12.3 AVAILABLE CUSTOMIZATIONS
12.4 RELATED REPORTS
12.5 AUTHOR DETAILS

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