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Global Power GaN Chips IDM Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Power GaN Chips IDM market size was valued at US$ 215 million in 2025 and is forecast to a readjusted size of US$ 776 million by 2032 with a CAGR of 20.4% during review period.

GaN, a wide bandgap semiconductor material featuring high-frequency and low on-resistance, has become the centerpiece in the ongoing revolution of the power semiconductor industry. In semiconductor industry, there are two models: IDM model and Fabless model. IDM model enables in-house control of the entire process from design, manufacturing to testing. With an integrated operational framework, the IDM model offers unmatched coordination and synergy while ensuring the quality of power semiconductor products. It provides stable production capacities, enables swift innovation through synergistic design and process iterations and supports cost-effective scaling. While advanced process technologies significantly enhance digital chip performance, the functionality of analog chips — especially power semiconductor chips — largely hinges on the intrinsic properties of the semiconductor materials employed. Different materials have distinct bandgap, carrier mobility, electrical and thermal conductivity and other properties, resulting in varied performance and applications. As a result, the IDM model, which enables in-house control of the entire process from design, manufacturing to testing, has been the mainstream operational framework in the broader power semiconductor industry. The global top five power semiconductor companies all adopted the IDM model. In the rapidly evolving GaN power semiconductor industry, this model continues to prove to be the most effective.

This report studies the power GaN devices (IDM model). The typical IDMs include Innoscience, Infineon (GaN Systems), Wolfspeed, STMicroelectronics, Renesas

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Electronics (Transphorm), Texas Instruments, Epistar Corp., China Resources Microelectronics Limited, CorEnergy, Dynax Semiconductor, Sanan Optoelectronics, Rohm, etc.

This report is a detailed and comprehensive analysis for global Power GaN Chips IDM market. Both quantitative and qualitative analyses are presented by company, by region & country, by Technology and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Power GaN Chips IDM market size and forecasts, in consumption value ($ Million), 2021-2032

Global Power GaN Chips IDM market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Power GaN Chips IDM market size and forecasts, by Technology and by Application, in consumption value ($ Million), 2021-2032

Global Power GaN Chips IDM market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Power GaN Chips IDM

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Power GaN Chips IDM market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon (GaN Systems), Renesas Electronics (Transphorm), Wolfspeed, Inc, Innoscience, STMicroelectronics, Texas Instruments, onsemi, Microchip Technology, Rohm, NXP Semiconductors, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Power GaN Chips IDM market is split by Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Technology and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Technology

GaN-on-Si E-mode

GaN-on-Si D-mode

Market segment by Application

GaN Power Discrete

GaN Power IC

Market segment by players, this report covers

Infineon (GaN Systems)

Renesas Electronics (Transphorm)

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Wolfspeed, Inc

Innoscience

STMicroelectronics

Texas Instruments

onsemi

Microchip Technology

Rohm

NXP Semiconductors

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

Qorvo

Toshiba

Alpha and Omega Semiconductor Limited (AOS)

Nexperia

Epistar Corp.

CETC 13

CETC 55

China Resources Microelectronics Limited

CorEnergy

Sanan Optoelectronics

Hangzhou Silan Microelectronics

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Qingdao Cohenius Microelectronics

Dynax Semiconductor

Guangdong ZIENER Technology

Nuvoton Technology Corporation

Toyoda Gosei

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Power GaN Chips IDM product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Power GaN Chips IDM, with revenue, gross margin, and global market share of Power GaN Chips IDM from 2021 to 2026.

Chapter 3, the Power GaN Chips IDM competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

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Chapter 4 and 5, to segment the market size by Technology and by Application, with consumption value and growth rate by Technology, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Power GaN Chips IDM market forecast, by regions, by Technology and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Power GaN Chips IDM.

Chapter 13, to describe Power GaN Chips IDM research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Classification of Power GaN Chips IDM by Technology
  1.3.1 Overview: Global Power GaN Chips IDM Market Size by Technology: 2021 Versus 2025 Versus 2032
  1.3.2 Global Power GaN Chips IDM Consumption Value Market Share by Technology in 2025
  1.3.3 GaN-on-Si E-mode
  1.3.4 GaN-on-Si D-mode
1.4 Global Power GaN Chips IDM Market by Application
  1.4.1 Overview: Global Power GaN Chips IDM Market Size by Application: 2021 Versus 2025 Versus 2032
  1.4.2 GaN Power Discrete
  1.4.3 GaN Power IC
1.5 Global Power GaN Chips IDM Market Size & Forecast
1.6 Global Power GaN Chips IDM Market Size and Forecast by Region
  1.6.1 Global Power GaN Chips IDM Market Size by Region: 2021 VS 2025 VS 2032
  1.6.2 Global Power GaN Chips IDM Market Size by Region, (2021-2032)
  1.6.3 North America Power GaN Chips IDM Market Size and Prospect (2021-2032)
  1.6.4 Europe Power GaN Chips IDM Market Size and Prospect (2021-2032)
  1.6.5 Asia-Pacific Power GaN Chips IDM Market Size and Prospect (2021-2032)
  1.6.6 South America Power GaN Chips IDM Market Size and Prospect (2021-2032)
  1.6.7 Middle East & Africa Power GaN Chips IDM Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Infineon (GaN Systems)
  2.1.1 Infineon (GaN Systems) Details
  2.1.2 Infineon (GaN Systems) Major Business
  2.1.3 Infineon (GaN Systems) Power GaN Chips IDM Product and Solutions
  2.1.4 Infineon (GaN Systems) Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
  2.1.5 Infineon (GaN Systems) Recent Developments and Future Plans
2.2 Renesas Electronics (Transphorm)

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2.2.1 Renesas Electronics (Transphorm) Details
2.2.2 Renesas Electronics (Transphorm) Major Business
2.2.3 Renesas Electronics (Transphorm) Power GaN Chips IDM Product and Solutions
2.2.4 Renesas Electronics (Transphorm) Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Renesas Electronics (Transphorm) Recent Developments and Future Plans
2.3 Wolfspeed, Inc
2.3.1 Wolfspeed, Inc Details
2.3.2 Wolfspeed, Inc Major Business
2.3.3 Wolfspeed, Inc Power GaN Chips IDM Product and Solutions
2.3.4 Wolfspeed, Inc Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Wolfspeed, Inc Recent Developments and Future Plans
2.4 Innoscience
2.4.1 Innoscience Details
2.4.2 Innoscience Major Business
2.4.3 Innoscience Power GaN Chips IDM Product and Solutions
2.4.4 Innoscience Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Innoscience Recent Developments and Future Plans
2.5 STMicroelectronics
2.5.1 STMicroelectronics Details
2.5.2 STMicroelectronics Major Business
2.5.3 STMicroelectronics Power GaN Chips IDM Product and Solutions
2.5.4 STMicroelectronics Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 STMicroelectronics Recent Developments and Future Plans
2.6 Texas Instruments
2.6.1 Texas Instruments Details
2.6.2 Texas Instruments Major Business
2.6.3 Texas Instruments Power GaN Chips IDM Product and Solutions
2.6.4 Texas Instruments Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Texas Instruments Recent Developments and Future Plans
2.7 onsemi
2.7.1 onsemi Details
2.7.2 onsemi Major Business
2.7.3 onsemi Power GaN Chips IDM Product and Solutions
2.7.4 onsemi Power GaN Chips IDM Revenue, Gross Margin and Market Share

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(2021-2026)
2.7.5 onsemi Recent Developments and Future Plans
2.8 Microchip Technology
2.8.1 Microchip Technology Details
2.8.2 Microchip Technology Major Business
2.8.3 Microchip Technology Power GaN Chips IDM Product and Solutions
2.8.4 Microchip Technology Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Microchip Technology Recent Developments and Future Plans
2.9 Rohm
2.9.1 Rohm Details
2.9.2 Rohm Major Business
2.9.3 Rohm Power GaN Chips IDM Product and Solutions
2.9.4 Rohm Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 Rohm Recent Developments and Future Plans
2.10 NXP Semiconductors
2.10.1 NXP Semiconductors Details
2.10.2 NXP Semiconductors Major Business
2.10.3 NXP Semiconductors Power GaN Chips IDM Product and Solutions
2.10.4 NXP Semiconductors Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 NXP Semiconductors Recent Developments and Future Plans
2.11 Sumitomo Electric Device Innovations (SEDI) (SCIOCS)
2.11.1 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Details
2.11.2 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Major Business
2.11.3 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Power GaN Chips IDM Product and Solutions
2.11.4 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Recent Developments and Future Plans
2.12 Qorvo
2.12.1 Qorvo Details
2.12.2 Qorvo Major Business
2.12.3 Qorvo Power GaN Chips IDM Product and Solutions
2.12.4 Qorvo Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Qorvo Recent Developments and Future Plans

+357 96 030922
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2.13 Toshiba
2.13.1 Toshiba Details
2.13.2 Toshiba Major Business
2.13.3 Toshiba Power GaN Chips IDM Product and Solutions
2.13.4 Toshiba Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.13.5 Toshiba Recent Developments and Future Plans
2.14 Alpha and Omega Semiconductor Limited (AOS)
2.14.1 Alpha and Omega Semiconductor Limited (AOS) Details
2.14.2 Alpha and Omega Semiconductor Limited (AOS) Major Business
2.14.3 Alpha and Omega Semiconductor Limited (AOS) Power GaN Chips IDM Product and Solutions
2.14.4 Alpha and Omega Semiconductor Limited (AOS) Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.14.5 Alpha and Omega Semiconductor Limited (AOS) Recent Developments and Future Plans
2.15 Nexperia
2.15.1 Nexperia Details
2.15.2 Nexperia Major Business
2.15.3 Nexperia Power GaN Chips IDM Product and Solutions
2.15.4 Nexperia Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.15.5 Nexperia Recent Developments and Future Plans
2.16 Epistar Corp.
2.16.1 Epistar Corp. Details
2.16.2 Epistar Corp. Major Business
2.16.3 Epistar Corp. Power GaN Chips IDM Product and Solutions
2.16.4 Epistar Corp. Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.16.5 Epistar Corp. Recent Developments and Future Plans
2.17 CETC 13
2.17.1 CETC 13 Details
2.17.2 CETC 13 Major Business
2.17.3 CETC 13 Power GaN Chips IDM Product and Solutions
2.17.4 CETC 13 Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.17.5 CETC 13 Recent Developments and Future Plans
2.18 CETC 55
2.18.1 CETC 55 Details

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2.18.2 CETC 55 Major Business
2.18.3 CETC 55 Power GaN Chips IDM Product and Solutions
2.18.4 CETC 55 Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.18.5 CETC 55 Recent Developments and Future Plans
2.19 China Resources Microelectronics Limited
2.19.1 China Resources Microelectronics Limited Details
2.19.2 China Resources Microelectronics Limited Major Business
2.19.3 China Resources Microelectronics Limited Power GaN Chips IDM Product and Solutions
2.19.4 China Resources Microelectronics Limited Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.19.5 China Resources Microelectronics Limited Recent Developments and Future Plans
2.20 CorEnergy
2.20.1 CorEnergy Details
2.20.2 CorEnergy Major Business
2.20.3 CorEnergy Power GaN Chips IDM Product and Solutions
2.20.4 CorEnergy Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.20.5 CorEnergy Recent Developments and Future Plans
2.21 Sanan Optoelectronics
2.21.1 Sanan Optoelectronics Details
2.21.2 Sanan Optoelectronics Major Business
2.21.3 Sanan Optoelectronics Power GaN Chips IDM Product and Solutions
2.21.4 Sanan Optoelectronics Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.21.5 Sanan Optoelectronics Recent Developments and Future Plans
2.22 Hangzhou Silan Microelectronics
2.22.1 Hangzhou Silan Microelectronics Details
2.22.2 Hangzhou Silan Microelectronics Major Business
2.22.3 Hangzhou Silan Microelectronics Power GaN Chips IDM Product and Solutions
2.22.4 Hangzhou Silan Microelectronics Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.22.5 Hangzhou Silan Microelectronics Recent Developments and Future Plans
2.23 Qingdao Cohenius Microelectronics
2.23.1 Qingdao Cohenius Microelectronics Details
2.23.2 Qingdao Cohenius Microelectronics Major Business
2.23.3 Qingdao Cohenius Microelectronics Power GaN Chips IDM Product and

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info@marketpublishers.com

Solutions
2.23.4 Qingdao Cohenius Microelectronics Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.23.5 Qingdao Cohenius Microelectronics Recent Developments and Future Plans
2.24 Dynax Semiconductor
2.24.1 Dynax Semiconductor Details
2.24.2 Dynax Semiconductor Major Business
2.24.3 Dynax Semiconductor Power GaN Chips IDM Product and Solutions
2.24.4 Dynax Semiconductor Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.24.5 Dynax Semiconductor Recent Developments and Future Plans
2.25 Guangdong ZIENER Technology
2.25.1 Guangdong ZIENER Technology Details
2.25.2 Guangdong ZIENER Technology Major Business
2.25.3 Guangdong ZIENER Technology Power GaN Chips IDM Product and Solutions
2.25.4 Guangdong ZIENER Technology Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.25.5 Guangdong ZIENER Technology Recent Developments and Future Plans
2.26 Nuvoton Technology Corporation
2.26.1 Nuvoton Technology Corporation Details
2.26.2 Nuvoton Technology Corporation Major Business
2.26.3 Nuvoton Technology Corporation Power GaN Chips IDM Product and Solutions
2.26.4 Nuvoton Technology Corporation Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.26.5 Nuvoton Technology Corporation Recent Developments and Future Plans
2.27 Toyoda Gosei
2.27.1 Toyoda Gosei Details
2.27.2 Toyoda Gosei Major Business
2.27.3 Toyoda Gosei Power GaN Chips IDM Product and Solutions
2.27.4 Toyoda Gosei Power GaN Chips IDM Revenue, Gross Margin and Market Share (2021-2026)
2.27.5 Toyoda Gosei Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Power GaN Chips IDM Revenue and Share by Players (2021-2026)
3.2 Market Share Analysis (2025)
3.2.1 Market Share of Power GaN Chips IDM by Company Revenue
3.2.2 Top 3 Power GaN Chips IDM Players Market Share in 2025

+357 96 030922
info@marketpublishers.com

3.2.3 Top 6 Power GaN Chips IDM Players Market Share in 2025
3.3 Power GaN Chips IDM Market: Overall Company Footprint Analysis
3.3.1 Power GaN Chips IDM Market: Region Footprint
3.3.2 Power GaN Chips IDM Market: Company Product Type Footprint
3.3.3 Power GaN Chips IDM Market: Company Product Application Footprint
3.4 New Market Entrants and Barriers to Market Entry
3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TECHNOLOGY

4.1 Global Power GaN Chips IDM Consumption Value and Market Share by Technology (2021-2026)
4.2 Global Power GaN Chips IDM Market Forecast by Technology (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Power GaN Chips IDM Consumption Value Market Share by Application (2021-2026)
5.2 Global Power GaN Chips IDM Market Forecast by Application (2027-2032)

6 NORTH AMERICA

6.1 North America Power GaN Chips IDM Consumption Value by Technology (2021-2032)
6.2 North America Power GaN Chips IDM Market Size by Application (2021-2032)
6.3 North America Power GaN Chips IDM Market Size by Country
6.3.1 North America Power GaN Chips IDM Consumption Value by Country (2021-2032)
6.3.2 United States Power GaN Chips IDM Market Size and Forecast (2021-2032)
6.3.3 Canada Power GaN Chips IDM Market Size and Forecast (2021-2032)
6.3.4 Mexico Power GaN Chips IDM Market Size and Forecast (2021-2032)

7 EUROPE

7.1 Europe Power GaN Chips IDM Consumption Value by Technology (2021-2032)
7.2 Europe Power GaN Chips IDM Consumption Value by Application (2021-2032)
7.3 Europe Power GaN Chips IDM Market Size by Country
7.3.1 Europe Power GaN Chips IDM Consumption Value by Country (2021-2032)
7.3.2 Germany Power GaN Chips IDM Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

7.3.3 France Power GaN Chips IDM Market Size and Forecast (2021-2032)
7.3.4 United Kingdom Power GaN Chips IDM Market Size and Forecast (2021-2032)
7.3.5 Russia Power GaN Chips IDM Market Size and Forecast (2021-2032)
7.3.6 Italy Power GaN Chips IDM Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Power GaN Chips IDM Consumption Value by Technology (2021-2032)
8.2 Asia-Pacific Power GaN Chips IDM Consumption Value by Application (2021-2032)
8.3 Asia-Pacific Power GaN Chips IDM Market Size by Region
8.3.1 Asia-Pacific Power GaN Chips IDM Consumption Value by Region (2021-2032)
8.3.2 China Power GaN Chips IDM Market Size and Forecast (2021-2032)
8.3.3 Japan Power GaN Chips IDM Market Size and Forecast (2021-2032)
8.3.4 South Korea Power GaN Chips IDM Market Size and Forecast (2021-2032)
8.3.5 India Power GaN Chips IDM Market Size and Forecast (2021-2032)
8.3.6 Southeast Asia Power GaN Chips IDM Market Size and Forecast (2021-2032)
8.3.7 Australia Power GaN Chips IDM Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Power GaN Chips IDM Consumption Value by Technology (2021-2032)
9.2 South America Power GaN Chips IDM Consumption Value by Application (2021-2032)
9.3 South America Power GaN Chips IDM Market Size by Country
9.3.1 South America Power GaN Chips IDM Consumption Value by Country (2021-2032)
9.3.2 Brazil Power GaN Chips IDM Market Size and Forecast (2021-2032)
9.3.3 Argentina Power GaN Chips IDM Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Power GaN Chips IDM Consumption Value by Technology (2021-2032)
10.2 Middle East & Africa Power GaN Chips IDM Consumption Value by Application (2021-2032)
10.3 Middle East & Africa Power GaN Chips IDM Market Size by Country
10.3.1 Middle East & Africa Power GaN Chips IDM Consumption Value by Country (2021-2032)

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10.3.2 Turkey Power GaN Chips IDM Market Size and Forecast (2021-2032)
10.3.3 Saudi Arabia Power GaN Chips IDM Market Size and Forecast (2021-2032)
10.3.4 UAE Power GaN Chips IDM Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Power GaN Chips IDM Market Drivers
11.2 Power GaN Chips IDM Market Restraints
11.3 Power GaN Chips IDM Trends Analysis
11.4 Porters Five Forces Analysis
11.4.1 Threat of New Entrants
11.4.2 Bargaining Power of Suppliers
11.4.3 Bargaining Power of Buyers
11.4.4 Threat of Substitutes
11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Power GaN Chips IDM Industry Chain
12.2 Power GaN Chips IDM Upstream Analysis
12.3 Power GaN Chips IDM Midstream Analysis
12.4 Power GaN Chips IDM Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology
14.2 Research Process and Data Source
14.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Power GaN Chips IDM Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
Table 2. Global Power GaN Chips IDM Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 3. Global Power GaN Chips IDM Consumption Value by Region (2021-2026) & (USD Million)
Table 4. Global Power GaN Chips IDM Consumption Value by Region (2027-2032) & (USD Million)
Table 5. Infineon (GaN Systems) Company Information, Head Office, and Major Competitors
Table 6. Infineon (GaN Systems) Major Business
Table 7. Infineon (GaN Systems) Power GaN Chips IDM Product and Solutions
Table 8. Infineon (GaN Systems) Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Infineon (GaN Systems) Recent Developments and Future Plans
Table 10. Renesas Electronics (Transphorm) Company Information, Head Office, and Major Competitors
Table 11. Renesas Electronics (Transphorm) Major Business
Table 12. Renesas Electronics (Transphorm) Power GaN Chips IDM Product and Solutions
Table 13. Renesas Electronics (Transphorm) Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Renesas Electronics (Transphorm) Recent Developments and Future Plans
Table 15. Wolfspeed, Inc Company Information, Head Office, and Major Competitors
Table 16. Wolfspeed, Inc Major Business
Table 17. Wolfspeed, Inc Power GaN Chips IDM Product and Solutions
Table 18. Wolfspeed, Inc Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. Innoscience Company Information, Head Office, and Major Competitors
Table 20. Innoscience Major Business
Table 21. Innoscience Power GaN Chips IDM Product and Solutions
Table 22. Innoscience Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 23. Innoscience Recent Developments and Future Plans
Table 24. STMicroelectronics Company Information, Head Office, and Major

+357 96 030922
info@marketpublishers.com

Competitors
Table 25. STMicroelectronics Major Business
Table 26. STMicroelectronics Power GaN Chips IDM Product and Solutions
Table 27. STMicroelectronics Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 28. STMicroelectronics Recent Developments and Future Plans
Table 29. Texas Instruments Company Information, Head Office, and Major Competitors
Table 30. Texas Instruments Major Business
Table 31. Texas Instruments Power GaN Chips IDM Product and Solutions
Table 32. Texas Instruments Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 33. Texas Instruments Recent Developments and Future Plans
Table 34. onsemi Company Information, Head Office, and Major Competitors
Table 35. onsemi Major Business
Table 36. onsemi Power GaN Chips IDM Product and Solutions
Table 37. onsemi Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 38. onsemi Recent Developments and Future Plans
Table 39. Microchip Technology Company Information, Head Office, and Major Competitors
Table 40. Microchip Technology Major Business
Table 41. Microchip Technology Power GaN Chips IDM Product and Solutions
Table 42. Microchip Technology Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 43. Microchip Technology Recent Developments and Future Plans
Table 44. Rohm Company Information, Head Office, and Major Competitors
Table 45. Rohm Major Business
Table 46. Rohm Power GaN Chips IDM Product and Solutions
Table 47. Rohm Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 48. Rohm Recent Developments and Future Plans
Table 49. NXP Semiconductors Company Information, Head Office, and Major Competitors
Table 50. NXP Semiconductors Major Business
Table 51. NXP Semiconductors Power GaN Chips IDM Product and Solutions
Table 52. NXP Semiconductors Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 53. NXP Semiconductors Recent Developments and Future Plans

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Table 54. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Company Information, Head Office, and Major Competitors
Table 55. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Major Business
Table 56. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Power GaN Chips IDM Product and Solutions
Table 57. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 58. Sumitomo Electric Device Innovations (SEDI) (SCIOCS) Recent Developments and Future Plans
Table 59. Qorvo Company Information, Head Office, and Major Competitors
Table 60. Qorvo Major Business
Table 61. Qorvo Power GaN Chips IDM Product and Solutions
Table 62. Qorvo Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 63. Qorvo Recent Developments and Future Plans
Table 64. Toshiba Company Information, Head Office, and Major Competitors
Table 65. Toshiba Major Business
Table 66. Toshiba Power GaN Chips IDM Product and Solutions
Table 67. Toshiba Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 68. Toshiba Recent Developments and Future Plans
Table 69. Alpha and Omega Semiconductor Limited (AOS) Company Information, Head Office, and Major Competitors
Table 70. Alpha and Omega Semiconductor Limited (AOS) Major Business
Table 71. Alpha and Omega Semiconductor Limited (AOS) Power GaN Chips IDM Product and Solutions
Table 72. Alpha and Omega Semiconductor Limited (AOS) Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 73. Alpha and Omega Semiconductor Limited (AOS) Recent Developments and Future Plans
Table 74. Nexperia Company Information, Head Office, and Major Competitors
Table 75. Nexperia Major Business
Table 76. Nexperia Power GaN Chips IDM Product and Solutions
Table 77. Nexperia Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. Nexperia Recent Developments and Future Plans
Table 79. Epistar Corp. Company Information, Head Office, and Major Competitors
Table 80. Epistar Corp. Major Business
Table 81. Epistar Corp. Power GaN Chips IDM Product and Solutions

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Table 82. Epistar Corp. Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 83. Epistar Corp. Recent Developments and Future Plans
Table 84. CETC 13 Company Information, Head Office, and Major Competitors
Table 85. CETC 13 Major Business
Table 86. CETC 13 Power GaN Chips IDM Product and Solutions
Table 87. CETC 13 Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 88. CETC 13 Recent Developments and Future Plans
Table 89. CETC 55 Company Information, Head Office, and Major Competitors
Table 90. CETC 55 Major Business
Table 91. CETC 55 Power GaN Chips IDM Product and Solutions
Table 92. CETC 55 Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 93. CETC 55 Recent Developments and Future Plans
Table 94. China Resources Microelectronics Limited Company Information, Head Office, and Major Competitors
Table 95. China Resources Microelectronics Limited Major Business
Table 96. China Resources Microelectronics Limited Power GaN Chips IDM Product and Solutions
Table 97. China Resources Microelectronics Limited Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. China Resources Microelectronics Limited Recent Developments and Future Plans
Table 99. CorEnergy Company Information, Head Office, and Major Competitors
Table 100. CorEnergy Major Business
Table 101. CorEnergy Power GaN Chips IDM Product and Solutions
Table 102. CorEnergy Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. CorEnergy Recent Developments and Future Plans
Table 104. Sanan Optoelectronics Company Information, Head Office, and Major Competitors
Table 105. Sanan Optoelectronics Major Business
Table 106. Sanan Optoelectronics Power GaN Chips IDM Product and Solutions
Table 107. Sanan Optoelectronics Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Sanan Optoelectronics Recent Developments and Future Plans
Table 109. Hangzhou Silan Microelectronics Company Information, Head Office, and Major Competitors

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Table 110. Hangzhou Silan Microelectronics Major Business
Table 111. Hangzhou Silan Microelectronics Power GaN Chips IDM Product and Solutions
Table 112. Hangzhou Silan Microelectronics Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 113. Hangzhou Silan Microelectronics Recent Developments and Future Plans
Table 114. Qingdao Cohenius Microelectronics Company Information, Head Office, and Major Competitors
Table 115. Qingdao Cohenius Microelectronics Major Business
Table 116. Qingdao Cohenius Microelectronics Power GaN Chips IDM Product and Solutions
Table 117. Qingdao Cohenius Microelectronics Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 118. Qingdao Cohenius Microelectronics Recent Developments and Future Plans
Table 119. Dynax Semiconductor Company Information, Head Office, and Major Competitors
Table 120. Dynax Semiconductor Major Business
Table 121. Dynax Semiconductor Power GaN Chips IDM Product and Solutions
Table 122. Dynax Semiconductor Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 123. Dynax Semiconductor Recent Developments and Future Plans
Table 124. Guangdong ZIENER Technology Company Information, Head Office, and Major Competitors
Table 125. Guangdong ZIENER Technology Major Business
Table 126. Guangdong ZIENER Technology Power GaN Chips IDM Product and Solutions
Table 127. Guangdong ZIENER Technology Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. Guangdong ZIENER Technology Recent Developments and Future Plans
Table 129. Nuvoton Technology Corporation Company Information, Head Office, and Major Competitors
Table 130. Nuvoton Technology Corporation Major Business
Table 131. Nuvoton Technology Corporation Power GaN Chips IDM Product and Solutions
Table 132. Nuvoton Technology Corporation Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Nuvoton Technology Corporation Recent Developments and Future Plans
Table 134. Toyoda Gosei Company Information, Head Office, and Major Competitors
Table 135. Toyoda Gosei Major Business

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Table 136. Toyoda Gosei Power GaN Chips IDM Product and Solutions
Table 137. Toyoda Gosei Power GaN Chips IDM Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 138. Toyoda Gosei Recent Developments and Future Plans
Table 139. Global Power GaN Chips IDM Revenue (USD Million) by Players (2021-2026)
Table 140. Global Power GaN Chips IDM Revenue Share by Players (2021-2026)
Table 141. Breakdown of Power GaN Chips IDM by Company Type (Tier 1, Tier 2, and Tier 3)
Table 142. Market Position of Players in Power GaN Chips IDM, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 143. Head Office of Key Power GaN Chips IDM Players
Table 144. Power GaN Chips IDM Market: Company Product Type Footprint
Table 145. Power GaN Chips IDM Market: Company Product Application Footprint
Table 146. Power GaN Chips IDM New Market Entrants and Barriers to Market Entry
Table 147. Power GaN Chips IDM Mergers, Acquisition, Agreements, and Collaborations
Table 148. Global Power GaN Chips IDM Consumption Value (USD Million) by Technology (2021-2026)
Table 149. Global Power GaN Chips IDM Consumption Value Share by Technology (2021-2026)
Table 150. Global Power GaN Chips IDM Consumption Value Forecast by Technology (2027-2032)
Table 151. Global Power GaN Chips IDM Consumption Value by Application (2021-2026)
Table 152. Global Power GaN Chips IDM Consumption Value Forecast by Application (2027-2032)
Table 153. North America Power GaN Chips IDM Consumption Value by Technology (2021-2026) & (USD Million)
Table 154. North America Power GaN Chips IDM Consumption Value by Technology (2027-2032) & (USD Million)
Table 155. North America Power GaN Chips IDM Consumption Value by Application (2021-2026) & (USD Million)
Table 156. North America Power GaN Chips IDM Consumption Value by Application (2027-2032) & (USD Million)
Table 157. North America Power GaN Chips IDM Consumption Value by Country (2021-2026) & (USD Million)
Table 158. North America Power GaN Chips IDM Consumption Value by Country (2027-2032) & (USD Million)

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Table 159. Europe Power GaN Chips IDM Consumption Value by Technology (2021-2026) & (USD Million)
Table 160. Europe Power GaN Chips IDM Consumption Value by Technology (2027-2032) & (USD Million)
Table 161. Europe Power GaN Chips IDM Consumption Value by Application (2021-2026) & (USD Million)
Table 162. Europe Power GaN Chips IDM Consumption Value by Application (2027-2032) & (USD Million)
Table 163. Europe Power GaN Chips IDM Consumption Value by Country (2021-2026) & (USD Million)
Table 164. Europe Power GaN Chips IDM Consumption Value by Country (2027-2032) & (USD Million)
Table 165. Asia-Pacific Power GaN Chips IDM Consumption Value by Technology (2021-2026) & (USD Million)
Table 166. Asia-Pacific Power GaN Chips IDM Consumption Value by Technology (2027-2032) & (USD Million)
Table 167. Asia-Pacific Power GaN Chips IDM Consumption Value by Application (2021-2026) & (USD Million)
Table 168. Asia-Pacific Power GaN Chips IDM Consumption Value by Application (2027-2032) & (USD Million)
Table 169. Asia-Pacific Power GaN Chips IDM Consumption Value by Region (2021-2026) & (USD Million)
Table 170. Asia-Pacific Power GaN Chips IDM Consumption Value by Region (2027-2032) & (USD Million)
Table 171. South America Power GaN Chips IDM Consumption Value by Technology (2021-2026) & (USD Million)
Table 172. South America Power GaN Chips IDM Consumption Value by Technology (2027-2032) & (USD Million)
Table 173. South America Power GaN Chips IDM Consumption Value by Application (2021-2026) & (USD Million)
Table 174. South America Power GaN Chips IDM Consumption Value by Application (2027-2032) & (USD Million)
Table 175. South America Power GaN Chips IDM Consumption Value by Country (2021-2026) & (USD Million)
Table 176. South America Power GaN Chips IDM Consumption Value by Country (2027-2032) & (USD Million)
Table 177. Middle East & Africa Power GaN Chips IDM Consumption Value by Technology (2021-2026) & (USD Million)
Table 178. Middle East & Africa Power GaN Chips IDM Consumption Value by

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Technology (2027-2032) & (USD Million)
Table 179. Middle East & Africa Power GaN Chips IDM Consumption Value by Application (2021-2026) & (USD Million)
Table 180. Middle East & Africa Power GaN Chips IDM Consumption Value by Application (2027-2032) & (USD Million)
Table 181. Middle East & Africa Power GaN Chips IDM Consumption Value by Country (2021-2026) & (USD Million)
Table 182. Middle East & Africa Power GaN Chips IDM Consumption Value by Country (2027-2032) & (USD Million)
Table 183. Global Key Players of Power GaN Chips IDM Upstream (Raw Materials)
Table 184. Global Power GaN Chips IDM Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Power GaN Chips IDM Picture
Figure 2. Global Power GaN Chips IDM Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Power GaN Chips IDM Consumption Value Market Share by Technology in 2025
Figure 4. GaN-on-Si E-mode
Figure 5. GaN-on-Si D-mode
Figure 6. Global Power GaN Chips IDM Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 7. Power GaN Chips IDM Consumption Value Market Share by Application in 2025
Figure 8. GaN Power Discrete Picture
Figure 9. GaN Power IC Picture
Figure 10. Global Power GaN Chips IDM Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 11. Global Power GaN Chips IDM Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 12. Global Market Power GaN Chips IDM Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)
Figure 13. Global Power GaN Chips IDM Consumption Value Market Share by Region (2021-2032)
Figure 14. Global Power GaN Chips IDM Consumption Value Market Share by Region in 2025
Figure 15. North America Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 16. Europe Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 17. Asia-Pacific Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 18. South America Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 19. Middle East & Africa Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 20. Company Three Recent Developments and Future Plans
Figure 21. Global Power GaN Chips IDM Revenue Share by Players in 2025

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Figure 22. Power GaN Chips IDM Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025
Figure 23. Market Share of Power GaN Chips IDM by Player Revenue in 2025
Figure 24. Top 3 Power GaN Chips IDM Players Market Share in 2025
Figure 25. Top 6 Power GaN Chips IDM Players Market Share in 2025
Figure 26. Global Power GaN Chips IDM Consumption Value Share by Technology (2021-2026)
Figure 27. Global Power GaN Chips IDM Market Share Forecast by Technology (2027-2032)
Figure 28. Global Power GaN Chips IDM Consumption Value Share by Application (2021-2026)
Figure 29. Global Power GaN Chips IDM Market Share Forecast by Application (2027-2032)
Figure 30. North America Power GaN Chips IDM Consumption Value Market Share by Technology (2021-2032)
Figure 31. North America Power GaN Chips IDM Consumption Value Market Share by Application (2021-2032)
Figure 32. North America Power GaN Chips IDM Consumption Value Market Share by Country (2021-2032)
Figure 33. United States Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 34. Canada Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 35. Mexico Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 36. Europe Power GaN Chips IDM Consumption Value Market Share by Technology (2021-2032)
Figure 37. Europe Power GaN Chips IDM Consumption Value Market Share by Application (2021-2032)
Figure 38. Europe Power GaN Chips IDM Consumption Value Market Share by Country (2021-2032)
Figure 39. Germany Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 40. France Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 41. United Kingdom Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 42. Russia Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)

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Figure 43. Italy Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 44. Asia-Pacific Power GaN Chips IDM Consumption Value Market Share by Technology (2021-2032)
Figure 45. Asia-Pacific Power GaN Chips IDM Consumption Value Market Share by Application (2021-2032)
Figure 46. Asia-Pacific Power GaN Chips IDM Consumption Value Market Share by Region (2021-2032)
Figure 47. China Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 48. Japan Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 49. South Korea Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 50. India Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 51. Southeast Asia Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 52. Australia Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 53. South America Power GaN Chips IDM Consumption Value Market Share by Technology (2021-2032)
Figure 54. South America Power GaN Chips IDM Consumption Value Market Share by Application (2021-2032)
Figure 55. South America Power GaN Chips IDM Consumption Value Market Share by Country (2021-2032)
Figure 56. Brazil Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 57. Argentina Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 58. Middle East & Africa Power GaN Chips IDM Consumption Value Market Share by Technology (2021-2032)
Figure 59. Middle East & Africa Power GaN Chips IDM Consumption Value Market Share by Application (2021-2032)
Figure 60. Middle East & Africa Power GaN Chips IDM Consumption Value Market Share by Country (2021-2032)
Figure 61. Turkey Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 62. Saudi Arabia Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)

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Figure 63. UAE Power GaN Chips IDM Consumption Value (2021-2032) & (USD Million)
Figure 64. Power GaN Chips IDM Market Drivers
Figure 65. Power GaN Chips IDM Market Restraints
Figure 66. Power GaN Chips IDM Market Trends
Figure 67. Porters Five Forces Analysis
Figure 68. Power GaN Chips IDM Industrial Chain
Figure 69. Methodology
Figure 70. Research Process and Data Source

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