

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) GaN Power Devices Market 2018, Forecast to 2023

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Abstracts

GaN material has a critical field that is 10 times higher than silicon. With the same voltage ratings, a much lower on state resistance can be achieved.

Scope of the Report:

This report focuses on the GaN Power Devices in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

The global GaN power device market for RF power device held the largest share in 2016. In 2016, more than 90% of the total GaN power device market for RF power devices was dominated by the telecommunications; military, defense, and aerospace; and consumer and enterprise verticals. RF power devices are used in the military applications, very small aperture terminal (VSAT), phased-array radar applications, defense applications, RF cellular infrastructure, jammers, and satellite communications. Initially developed for improvised explosive device (IED) jammers in Iraq, GaN RF power has emerged as the technology of choice for all new microwave and millimeter-wave electronics including radar, satellite, communications, and electronic warfare.

The market for GaN-based power drives is expected to grow significantly during the forecast period. This is attributed to its characteristics such as high breakdown voltage and low conduction resistance characteristics that enable high-speed switching and miniaturization.

The growing EV charging and electric vehicle production markets, as well as increasing renewable energy generation are the main reasons for the high growth rate of GaN-

based power devices. Moreover, there is a huge demand for motor drives due to the high efficiency and performance characteristics offered by GaN devices in high voltage range (above 400 V) applications. GaN power devices are mainly used in UPS and motor control, wireless charging, high-efficiency power supply applications, servo motor drive, and hybrid and EV battery control and health management systems.

The worldwide market for GaN Power Devices is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Fujitsu

Toshiba

Koninklijke Philips

Texas Instruments

EPIGAN

NTT Advanced Technology

RF Micro Devices

Cree Incorporated

Aixtron

International Quantum Epitaxy (IQE)

Mitsubishi Chemical

AZZURO Semiconductors

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

600V

Other

Market Segment by Applications, can be divided into

Server and Other IT Equipments

High-efficiency and Stable Power Supplies

Rapidly Expanding HEV/EV Devices

There are 15 Chapters to deeply display the global GaN Power Devices market.

Chapter 1, to describe GaN Power Devices Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of GaN Power Devices, with sales, revenue, and price of GaN Power Devices, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of GaN Power Devices, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these

regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, GaN Power Devices market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe GaN Power Devices sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

Contents

1 MARKET OVERVIEW

- 1.1 GaN Power Devices Introduction
- 1.2 Market Analysis by Type
 - 1.2.1 600V
 - 1.2.2 Other
- 1.3 Market Analysis by Applications
 - 1.3.1 Server and Other IT Equipments
 - 1.3.2 High-efficiency and Stable Power Supplies
 - 1.3.3 Rapidly Expanding HEV/EV Devices
- 1.4 Market Analysis by Regions
 - 1.4.1 North America (United States, Canada and Mexico)
 - 1.4.1.1 United States Market States and Outlook (2013-2023)
 - 1.4.1.2 Canada Market States and Outlook (2013-2023)
 - 1.4.1.3 Mexico Market States and Outlook (2013-2023)
 - 1.4.2 Europe (Germany, France, UK, Russia and Italy)
 - 1.4.2.1 Germany Market States and Outlook (2013-2023)
 - 1.4.2.2 France Market States and Outlook (2013-2023)
 - 1.4.2.3 UK Market States and Outlook (2013-2023)
 - 1.4.2.4 Russia Market States and Outlook (2013-2023)
 - 1.4.2.5 Italy Market States and Outlook (2013-2023)
 - 1.4.3 Asia-Pacific (China, Japan, Korea, India and Southeast Asia)
 - 1.4.3.1 China Market States and Outlook (2013-2023)
 - 1.4.3.2 Japan Market States and Outlook (2013-2023)
 - 1.4.3.3 Korea Market States and Outlook (2013-2023)
 - 1.4.3.4 India Market States and Outlook (2013-2023)
 - 1.4.3.5 Southeast Asia Market States and Outlook (2013-2023)
 - 1.4.4 South America, Middle East and Africa
 - 1.4.4.1 Brazil Market States and Outlook (2013-2023)
 - 1.4.4.2 Egypt Market States and Outlook (2013-2023)
 - 1.4.4.3 Saudi Arabia Market States and Outlook (2013-2023)
 - 1.4.4.4 South Africa Market States and Outlook (2013-2023)
 - 1.4.4.5 Nigeria Market States and Outlook (2013-2023)
- 1.5 Market Dynamics
 - 1.5.1 Market Opportunities
 - 1.5.2 Market Risk
 - 1.5.3 Market Driving Force

2 MANUFACTURERS PROFILES

2.1 Fujitsu

2.1.1 Business Overview

2.1.1.1 Fujitsu Description

2.1.1.2 Fujitsu Headquarter, Main Business and Finance Overview

2.1.2 Fujitsu GaN Power Devices Product Introduction

2.1.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors

2.1.2.2 GaN Power Devices Product Information

2.1.3 Fujitsu GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.1.3.1 Fujitsu GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.1.3.2 Global Fujitsu GaN Power Devices Market Share in 2017

2.2 Toshiba

2.2.1 Business Overview

2.2.1.1 Toshiba Description

2.2.1.2 Toshiba Headquarter, Main Business and Finance Overview

2.2.2 Toshiba GaN Power Devices Product Introduction

2.2.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors

2.2.2.2 GaN Power Devices Product Information

2.2.3 Toshiba GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.2.3.1 Toshiba GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.2.3.2 Global Toshiba GaN Power Devices Market Share in 2017

2.3 Koninklijke Philips

2.3.1 Business Overview

2.3.1.1 Koninklijke Philips Description

2.3.1.2 Koninklijke Philips Headquarter, Main Business and Finance Overview

2.3.2 Koninklijke Philips GaN Power Devices Product Introduction

2.3.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors

2.3.2.2 GaN Power Devices Product Information

2.3.3 Koninklijke Philips GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.3.3.1 Koninklijke Philips GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.3.3.2 Global Koninklijke Philips GaN Power Devices Market Share in 2017

2.4 Texas Instruments

2.4.1 Business Overview

2.4.1.1 Texas Instruments Description

2.4.1.2 Texas Instruments Headquarter, Main Business and Finance Overview

2.4.2 Texas Instruments GaN Power Devices Product Introduction

2.4.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors

2.4.2.2 GaN Power Devices Product Information

2.4.3 Texas Instruments GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.4.3.1 Texas Instruments GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.4.3.2 Global Texas Instruments GaN Power Devices Market Share in 2017

2.5 EPIGAN

2.5.1 Business Overview

2.5.1.1 EPIGAN Description

2.5.1.2 EPIGAN Headquarter, Main Business and Finance Overview

2.5.2 EPIGAN GaN Power Devices Product Introduction

2.5.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors

2.5.2.2 GaN Power Devices Product Information

2.5.3 EPIGAN GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.5.3.1 EPIGAN GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.5.3.2 Global EPIGAN GaN Power Devices Market Share in 2017

2.6 NTT Advanced Technology

2.6.1 Business Overview

2.6.1.1 NTT Advanced Technology Description

2.6.1.2 NTT Advanced Technology Headquarter, Main Business and Finance Overview

2.6.2 NTT Advanced Technology GaN Power Devices Product Introduction

2.6.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors

2.6.2.2 GaN Power Devices Product Information

2.6.3 NTT Advanced Technology GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.6.3.1 NTT Advanced Technology GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.6.3.2 Global NTT Advanced Technology GaN Power Devices Market Share in 2017

2.7 RF Micro Devices

2.7.1 Business Overview

- 2.7.1.1 RF Micro Devices Description
- 2.7.1.2 RF Micro Devices Headquarter, Main Business and Finance Overview
- 2.7.2 RF Micro Devices GaN Power Devices Product Introduction
 - 2.7.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors
 - 2.7.2.2 GaN Power Devices Product Information
- 2.7.3 RF Micro Devices GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.7.3.1 RF Micro Devices GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.7.3.2 Global RF Micro Devices GaN Power Devices Market Share in 2017
- 2.8 Cree Incorporated
 - 2.8.1 Business Overview
 - 2.8.1.1 Cree Incorporated Description
 - 2.8.1.2 Cree Incorporated Headquarter, Main Business and Finance Overview
 - 2.8.2 Cree Incorporated GaN Power Devices Product Introduction
 - 2.8.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors
 - 2.8.2.2 GaN Power Devices Product Information
 - 2.8.3 Cree Incorporated GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.8.3.1 Cree Incorporated GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.8.3.2 Global Cree Incorporated GaN Power Devices Market Share in 2017
- 2.9 Aixtron
 - 2.9.1 Business Overview
 - 2.9.1.1 Aixtron Description
 - 2.9.1.2 Aixtron Headquarter, Main Business and Finance Overview
 - 2.9.2 Aixtron GaN Power Devices Product Introduction
 - 2.9.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors
 - 2.9.2.2 GaN Power Devices Product Information
 - 2.9.3 Aixtron GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.9.3.1 Aixtron GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.9.3.2 Global Aixtron GaN Power Devices Market Share in 2017
- 2.10 International Quantum Epitaxy (IQE)
 - 2.10.1 Business Overview
 - 2.10.1.1 International Quantum Epitaxy (IQE) Description
 - 2.10.1.2 International Quantum Epitaxy (IQE) Headquarter, Main Business and Finance Overview

- 2.10.2 International Quantum Epitaxy (IQE) GaN Power Devices Product Introduction
 - 2.10.2.1 GaN Power Devices Production Bases, Sales Regions and Major Competitors
 - 2.10.2.2 GaN Power Devices Product Information
- 2.10.3 International Quantum Epitaxy (IQE) GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.10.3.1 International Quantum Epitaxy (IQE) GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.10.3.2 Global International Quantum Epitaxy (IQE) GaN Power Devices Market Share in 2017
- 2.11 Mitsubishi Chemical
 - 2.11.1 Business Overview
 - 2.11.2 Mitsubishi Chemical GaN Power Devices Product Introduction
 - 2.11.3 Mitsubishi Chemical GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.12 AZZURO Semiconductors
 - 2.12.1 Business Overview
 - 2.12.2 AZZURO Semiconductors GaN Power Devices Product Introduction
 - 2.12.3 AZZURO Semiconductors GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

3 GLOBAL GAN POWER DEVICES MARKET COMPETITION, BY MANUFACTURER

- 3.1 Global GaN Power Devices Sales and Market Share by Manufacturer (2016-2017)
- 3.2 Global GaN Power Devices Revenue and Market Share by Manufacturer (2016-2017)
- 3.3 Global GaN Power Devices Price by Manufacturer (2016-2017)
- 3.4 Market Concentration Rate
 - 3.4.1 Top 3 GaN Power Devices Manufacturer Market Share in 2017
 - 3.4.2 Top 5 GaN Power Devices Manufacturer Market Share in 2017
- 3.5 Market Competition Trend

4 GLOBAL GAN POWER DEVICES MARKET ANALYSIS BY REGIONS

- 4.1 Global GaN Power Devices Sales, Revenue and Market Share by Regions
 - 4.1.1 Global GaN Power Devices Sales by Regions (2013-2018)
 - 4.1.2 Global GaN Power Devices Revenue by Regions (2013-2018)
- 4.2 North America GaN Power Devices Sales, Revenue and Growth Rate (2013-2018)
- 4.3 Europe GaN Power Devices Sales, Revenue and Growth Rate (2013-2018)

- 4.4 Asia-Pacific GaN Power Devices Sales, Revenue and Growth Rate (2013-2018)
- 4.5 South America GaN Power Devices Sales, Revenue and Growth Rate (2013-2018)
- 4.6 Middle East and Africa GaN Power Devices Sales, Revenue and Growth Rate (2013-2018)

5 NORTH AMERICA GAN POWER DEVICES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 5.1 North America GaN Power Devices Sales, Revenue and Market Share by Countries
 - 5.1.1 North America GaN Power Devices Sales by Countries (2013-2018)
 - 5.1.2 North America GaN Power Devices Revenue by Countries (2013-2018)
 - 5.1.3 United States GaN Power Devices Sales and Growth Rate (2013-2018)
 - 5.1.4 Canada GaN Power Devices Sales and Growth Rate (2013-2018)
 - 5.1.5 Mexico GaN Power Devices Sales and Growth Rate (2013-2018)
- 5.2 North America GaN Power Devices Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 5.2.1 North America GaN Power Devices Sales by Manufacturers (2016-2017)
 - 5.2.2 North America GaN Power Devices Revenue by Manufacturers (2016-2017)
- 5.3 North America GaN Power Devices Sales, Revenue and Market Share by Type (2013-2018)
 - 5.3.1 North America GaN Power Devices Sales and Sales Share by Type (2013-2018)
 - 5.3.2 North America GaN Power Devices Revenue and Revenue Share by Type (2013-2018)
- 5.4 North America GaN Power Devices Sales, Revenue and Market Share by Application (2013-2018)
 - 5.4.1 North America GaN Power Devices Sales and Sales Share by Application (2013-2018)
 - 5.4.2 North America GaN Power Devices Revenue and Revenue Share by Application (2013-2018)

6 EUROPE GAN POWER DEVICES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 6.1 Europe GaN Power Devices Sales, Revenue and Market Share by Countries
 - 6.1.1 Europe GaN Power Devices Sales by Countries (2013-2018)
 - 6.1.2 Europe GaN Power Devices Revenue by Countries (2013-2018)
 - 6.1.3 Germany GaN Power Devices Sales and Growth Rate (2013-2018)
 - 6.1.4 UK GaN Power Devices Sales and Growth Rate (2013-2018)
 - 6.1.5 France GaN Power Devices Sales and Growth Rate (2013-2018)

- 6.1.6 Russia GaN Power Devices Sales and Growth Rate (2013-2018)
- 6.1.7 Italy GaN Power Devices Sales and Growth Rate (2013-2018)
- 6.2 Europe GaN Power Devices Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 6.2.1 Europe GaN Power Devices Sales by Manufacturers (2016-2017)
 - 6.2.2 Europe GaN Power Devices Revenue by Manufacturers (2016-2017)
- 6.3 Europe GaN Power Devices Sales, Revenue and Market Share by Type (2013-2018)
 - 6.3.1 Europe GaN Power Devices Sales and Sales Share by Type (2013-2018)
 - 6.3.2 Europe GaN Power Devices Revenue and Revenue Share by Type (2013-2018)
- 6.4 Europe GaN Power Devices Sales, Revenue and Market Share by Application (2013-2018)
 - 6.4.1 Europe GaN Power Devices Sales and Sales Share by Application (2013-2018)
 - 6.4.2 Europe GaN Power Devices Revenue and Revenue Share by Application (2013-2018)

7 ASIA-PACIFIC GAN POWER DEVICES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

- 7.1 Asia-Pacific GaN Power Devices Sales, Revenue and Market Share by Countries
 - 7.1.1 Asia-Pacific GaN Power Devices Sales by Countries (2013-2018)
 - 7.1.2 Asia-Pacific GaN Power Devices Revenue by Countries (2013-2018)
 - 7.1.3 China GaN Power Devices Sales and Growth Rate (2013-2018)
 - 7.1.4 Japan GaN Power Devices Sales and Growth Rate (2013-2018)
 - 7.1.5 Korea GaN Power Devices Sales and Growth Rate (2013-2018)
 - 7.1.6 India GaN Power Devices Sales and Growth Rate (2013-2018)
 - 7.1.7 Southeast Asia GaN Power Devices Sales and Growth Rate (2013-2018)
- 7.2 Asia-Pacific GaN Power Devices Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 7.2.1 Asia-Pacific GaN Power Devices Sales by Manufacturers (2016-2017)
 - 7.2.2 Asia-Pacific GaN Power Devices Revenue by Manufacturers (2016-2017)
- 7.3 Asia-Pacific GaN Power Devices Sales, Revenue and Market Share by Type (2013-2018)
 - 7.3.1 Asia-Pacific GaN Power Devices Sales and Sales Share by Type (2013-2018)
 - 7.3.2 Asia-Pacific GaN Power Devices Revenue and Revenue Share by Type (2013-2018)
- 7.4 Asia-Pacific GaN Power Devices Sales, Revenue and Market Share by Application (2013-2018)
 - 7.4.1 Asia-Pacific GaN Power Devices Sales and Sales Share by Application

(2013-2018)

7.4.2 Asia-Pacific GaN Power Devices Revenue and Revenue Share by Application

(2013-2018)

8 SOUTH AMERICA GAN POWER DEVICES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

8.1 South America GaN Power Devices Sales, Revenue and Market Share by Countries

8.1.1 South America GaN Power Devices Sales by Countries (2013-2018)

8.1.2 South America GaN Power Devices Revenue by Countries (2013-2018)

8.1.3 Brazil GaN Power Devices Sales and Growth Rate (2013-2018)

8.1.4 Argentina GaN Power Devices Sales and Growth Rate (2013-2018)

8.1.5 Colombia GaN Power Devices Sales and Growth Rate (2013-2018)

8.2 South America GaN Power Devices Sales and Revenue (Value) by Manufacturers (2016-2017)

8.2.1 South America GaN Power Devices Sales by Manufacturers (2016-2017)

8.2.2 South America GaN Power Devices Revenue by Manufacturers (2016-2017)

8.3 South America GaN Power Devices Sales, Revenue and Market Share by Type (2013-2018)

8.3.1 South America GaN Power Devices Sales and Sales Share by Type (2013-2018)

8.3.2 South America GaN Power Devices Revenue and Revenue Share by Type (2013-2018)

8.4 South America GaN Power Devices Sales, Revenue and Market Share by Application (2013-2018)

8.4.1 South America GaN Power Devices Sales and Sales Share by Application (2013-2018)

8.4.2 South America GaN Power Devices Revenue and Revenue Share by Application (2013-2018)

9 MIDDLE EAST AND AFRICA GAN POWER DEVICES BY COUNTRIES, TYPE, APPLICATION AND MANUFACTURERS

9.1 Middle East and Africa GaN Power Devices Sales, Revenue and Market Share by Countries

9.1.1 Middle East and Africa GaN Power Devices Sales by Countries (2013-2018)

9.1.2 Middle East and Africa GaN Power Devices Revenue by Countries (2013-2018)

9.1.3 Saudi Arabia GaN Power Devices Sales and Growth Rate (2013-2018)

9.1.4 UAE GaN Power Devices Sales and Growth Rate (2013-2018)

9.1.5 Egypt GaN Power Devices Sales and Growth Rate (2013-2018)

- 9.1.6 Nigeria GaN Power Devices Sales and Growth Rate (2013-2018)
- 9.1.7 South Africa GaN Power Devices Sales and Growth Rate (2013-2018)
- 9.2 Middle East and Africa GaN Power Devices Sales and Revenue (Value) by Manufacturers (2016-2017)
 - 9.2.1 Middle East and Africa GaN Power Devices Sales by Manufacturers (2016-2017)
 - 9.2.2 Middle East and Africa GaN Power Devices Revenue by Manufacturers (2016-2017)
- 9.3 Middle East and Africa GaN Power Devices Sales, Revenue and Market Share by Type (2013-2018)
 - 9.3.1 Middle East and Africa GaN Power Devices Sales and Sales Share by Type (2013-2018)
 - 9.3.1 Middle East and Africa GaN Power Devices Revenue and Revenue Share by Type (2013-2018)
- 9.4 Middle East and Africa GaN Power Devices Sales, Revenue and Market Share by Application (2013-2018)
 - 9.4.1 Middle East and Africa GaN Power Devices Sales and Sales Share by Application (2013-2018)
 - 9.4.2 Middle East and Africa GaN Power Devices Revenue and Revenue Share by Application (2013-2018)

10 GLOBAL GAN POWER DEVICES MARKET SEGMENT BY TYPE

- 10.1 Global GaN Power Devices Sales, Revenue and Market Share by Type (2013-2018)
 - 10.1.1 Global GaN Power Devices Sales and Market Share by Type (2013-2018)
 - 10.1.2 Global GaN Power Devices Revenue and Market Share by Type (2013-2018)
- 10.2 600V Sales Growth and Price
 - 10.2.1 Global 600V Sales Growth (2013-2018)
 - 10.2.2 Global 600V Price (2013-2018)
- 10.3 Other Sales Growth and Price
 - 10.3.1 Global Other Sales Growth (2013-2018)
 - 10.3.2 Global Other Price (2013-2018)

11 GLOBAL GAN POWER DEVICES MARKET SEGMENT BY APPLICATION

- 11.1 Global GaN Power Devices Sales Market Share by Application (2013-2018)
- 11.2 Server and Other IT Equipments Sales Growth (2013-2018)
- 11.3 High-efficiency and Stable Power Supplies Sales Growth (2013-2018)
- 11.4 Rapidly Expanding HEV/EV Devices Sales Growth (2013-2018)

12 GAN POWER DEVICES MARKET FORECAST (2018-2023)

12.1 Global GaN Power Devices Sales, Revenue and Growth Rate (2018-2023)

12.2 GaN Power Devices Market Forecast by Regions (2018-2023)

12.2.1 North America GaN Power Devices Market Forecast (2018-2023)

12.2.2 Europe GaN Power Devices Market Forecast (2018-2023)

12.2.3 Asia-Pacific GaN Power Devices Market Forecast (2018-2023)

12.2.4 South America GaN Power Devices Market Forecast (2018-2023)

12.2.5 Middle East and Africa GaN Power Devices Market Forecast (2018-2023)

12.3 GaN Power Devices Market Forecast by Type (2018-2023)

12.3.1 Global GaN Power Devices Sales Forecast by Type (2018-2023)

12.3.2 Global GaN Power Devices Market Share Forecast by Type (2018-2023)

12.4 GaN Power Devices Market Forecast by Application (2018-2023)

12.4.1 Global GaN Power Devices Sales Forecast by Application (2018-2023)

12.4.2 Global GaN Power Devices Market Share Forecast by Application (2018-2023)

13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS

13.1 Sales Channel

13.1.1 Direct Marketing

13.1.2 Indirect Marketing

13.1.3 Marketing Channel Future Trend

13.2 Distributors, Traders and Dealers

14 RESEARCH FINDINGS AND CONCLUSION

15 APPENDIX

15.1 Methodology

15.2 Data Source

List Of Tables

LIST OF TABLES AND FIGURES

Figure GaN Power Devices Picture

Table Product Specifications of GaN Power Devices

Figure Global GaN Power Devices CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (USD Million)

Figure Global GaN Power Devices CAGR (%), Y-o-Y Growth (&) and Market Size, 2013-2023 (Sales)

Figure Global Sales Market Share of GaN Power Devices by Types in 2017

Figure 600V Picture

Table Major Manufacturers of 600V

Figure Other Picture

Table Major Manufacturers of Other

Figure GaN Power Devices Sales Market Share by Applications in 2017

Figure Server and Other IT Equipments Picture

Figure High-efficiency and Stable Power Supplies Picture

Figure Rapidly Expanding HEV/EV Devices Picture

Figure United States GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Canada GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Mexico GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Germany GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure France GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure UK GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Russia GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Italy GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure China GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Japan GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Korea GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure India GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Southeast Asia GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Brazil GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Egypt GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure Saudi Arabia GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Figure South Africa GaN Power Devices Revenue (Value) and Growth Rate

(2013-2023)

Figure Nigeria GaN Power Devices Revenue (Value) and Growth Rate (2013-2023)

Table Fujitsu Headquarter, Established, Main Business and Finance Overview (2017)

Table Fujitsu GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table Fujitsu GaN Power Devices Product

Table Fujitsu GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Fujitsu GaN Power Devices Sales Market Share in 2017

Figure Global Fujitsu GaN Power Devices Revenue Market Share in 2017

Table Toshiba Headquarter, Established, Main Business and Finance Overview (2017)

Table Toshiba GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table Toshiba GaN Power Devices Product

Table Toshiba GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Toshiba GaN Power Devices Sales Market Share in 2017

Figure Global Toshiba GaN Power Devices Revenue Market Share in 2017

Table Koninklijke Philips Headquarter, Established, Main Business and Finance Overview (2017)

Table Koninklijke Philips GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table Koninklijke Philips GaN Power Devices Product

Table Koninklijke Philips GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Koninklijke Philips GaN Power Devices Sales Market Share in 2017

Figure Global Koninklijke Philips GaN Power Devices Revenue Market Share in 2017

Table Texas Instruments Headquarter, Established, Main Business and Finance Overview (2017)

Table Texas Instruments GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table Texas Instruments GaN Power Devices Product

Table Texas Instruments GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Texas Instruments GaN Power Devices Sales Market Share in 2017

Figure Global Texas Instruments GaN Power Devices Revenue Market Share in 2017

Table EPIGAN Headquarter, Established, Main Business and Finance Overview (2017)

Table EPIGAN GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table EPIGAN GaN Power Devices Product

Table EPIGAN GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global EPIGAN GaN Power Devices Sales Market Share in 2017

Figure Global EPIGAN GaN Power Devices Revenue Market Share in 2017

Table NTT Advanced Technology Headquarter, Established, Main Business and Finance Overview (2017)

Table NTT Advanced Technology GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table NTT Advanced Technology GaN Power Devices Product

Table NTT Advanced Technology GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global NTT Advanced Technology GaN Power Devices Sales Market Share in 2017

Figure Global NTT Advanced Technology GaN Power Devices Revenue Market Share in 2017

Table RF Micro Devices Headquarter, Established, Main Business and Finance Overview (2017)

Table RF Micro Devices GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table RF Micro Devices GaN Power Devices Product

Table RF Micro Devices GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global RF Micro Devices GaN Power Devices Sales Market Share in 2017

Figure Global RF Micro Devices GaN Power Devices Revenue Market Share in 2017

Table Cree Incorporated Headquarter, Established, Main Business and Finance Overview (2017)

Table Cree Incorporated GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table Cree Incorporated GaN Power Devices Product

Table Cree Incorporated GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global Cree Incorporated GaN Power Devices Sales Market Share in 2017

Figure Global Cree Incorporated GaN Power Devices Revenue Market Share in 2017

Table Aixtron Headquarter, Established, Main Business and Finance Overview (2017)

Table Aixtron GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table Aixtron GaN Power Devices Product

Table Aixtron GaN Power Devices Sales, Price, Revenue, Gross Margin and Market

Share (2016-2017)

Figure Global Aixtron GaN Power Devices Sales Market Share in 2017

Figure Global Aixtron GaN Power Devices Revenue Market Share in 2017

Table International Quantum Epitaxy (IQE) Headquarter, Established, Main Business and Finance Overview (2017)

Table International Quantum Epitaxy (IQE) GaN Power Devices Production Bases, Sales Regions and Major Competitors

Table International Quantum Epitaxy (IQE) GaN Power Devices Product

Table International Quantum Epitaxy (IQE) GaN Power Devices Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Figure Global International Quantum Epitaxy (IQE) GaN Power Devices Sales Market Share in 2017

Figure Global International Quantum Epitaxy (IQE) GaN Power Devices Revenue Market Share in 2017

Table Mitsubishi Chemical

Table Mitsubishi Chemical GaN Power Devices

Table AZZURO Semiconductors

Table AZZURO Semiconductors GaN Power Devices

Table Global GaN Power Devices Sales by Manufacturer (2016-2017)

Figure Global GaN Power Devices Sales Market Share by Manufacturer in 2016

Figure Global GaN Power Devices Sales Market Share by Manufacturer in 2017

Table Global GaN Power Devices Revenue by Manufacturer (2016-2017)

Figure Global GaN Power Devices Revenue Market Share by Manufacturer in 2016

Figure Global GaN Power Devices Revenue Market Share by Manufacturer in 2017

Table Global GaN Power Devices Price by Manufacturer (2016-2017)

Figure Top 3 GaN Power Devices Manufacturer (Revenue) Market Share in 2017

Figure Top 6 GaN Power Devices Manufacturer (Revenue) Market Share in 2017

Figure Global GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Global GaN Power Devices Revenue and Growth Rate (2013-2018)

Table Global GaN Power Devices Sales by Regions (2013-2018)

Table Global GaN Power Devices Sales Market Share by Regions (2013-2018)

Table Global GaN Power Devices Revenue by Regions (2013-2018)

Figure Global GaN Power Devices Revenue Market Share by Regions in 2013

Figure Global GaN Power Devices Revenue Market Share by Regions in 2017

Figure North America GaN Power Devices Sales and Growth Rate (2013-2018)

Figure North America GaN Power Devices Revenue and Growth Rate (2013-2018)

Figure Europe GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Europe GaN Power Devices Revenue and Growth Rate (2013-2018)

Figure Asia-Pacific GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Asia-Pacific GaN Power Devices Revenue and Growth Rate (2013-2018)
Figure South America GaN Power Devices Sales and Growth Rate (2013-2018)
Figure South America GaN Power Devices Revenue and Growth Rate (2013-2018)
Figure Middle East and Africa GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Middle East and Africa GaN Power Devices Revenue and Growth Rate (2013-2018)
Figure North America GaN Power Devices Revenue and Growth Rate (2013-2018)
Table North America GaN Power Devices Sales by Countries (2013-2018)
Table North America GaN Power Devices Sales Market Share by Countries (2013-2018)
Figure North America GaN Power Devices Sales Market Share by Countries in 2013
Figure North America GaN Power Devices Sales Market Share by Countries in 2017
Table North America GaN Power Devices Revenue by Countries (2013-2018)
Table North America GaN Power Devices Revenue Market Share by Countries (2013-2018)
Figure North America GaN Power Devices Revenue Market Share by Countries in 2013
Figure North America GaN Power Devices Revenue Market Share by Countries in 2017
Figure United States GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Canada GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Mexico GaN Power Devices Sales and Growth Rate (2013-2018)
Table North America GaN Power Devices Sales by Manufacturer (2016-2017)
Figure North America GaN Power Devices Sales Market Share by Manufacturer in 2016
Figure North America GaN Power Devices Sales Market Share by Manufacturer in 2017
Table North America GaN Power Devices Revenue by Manufacturer (2016-2017)
Figure North America GaN Power Devices Revenue Market Share by Manufacturer in 2016
Figure North America GaN Power Devices Revenue Market Share by Manufacturer in 2017
Table North America GaN Power Devices Sales by Type (2013-2018)
Table North America GaN Power Devices Sales Share by Type (2013-2018)
Table North America GaN Power Devices Revenue by Type (2013-2018)
Table North America GaN Power Devices Revenue Share by Type (2013-2018)
Table North America GaN Power Devices Sales by Application (2013-2018)
Table North America GaN Power Devices Sales Share by Application (2013-2018)
Table North America GaN Power Devices Revenue by Application (2013-2018)
Table North America GaN Power Devices Revenue Share by Application (2013-2018)
Figure Europe GaN Power Devices Revenue and Growth Rate (2013-2018)
Table Europe GaN Power Devices Sales by Countries (2013-2018)
Table Europe GaN Power Devices Sales Market Share by Countries (2013-2018)

Table Europe GaN Power Devices Revenue by Countries (2013-2018)
Figure Europe GaN Power Devices Revenue Market Share by Countries in 2016
Figure Europe GaN Power Devices Revenue Market Share by Countries in 2017
Figure Germany GaN Power Devices Sales and Growth Rate (2013-2018)
Figure UK GaN Power Devices Sales and Growth Rate (2013-2018)
Figure France GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Russia GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Italy GaN Power Devices Sales and Growth Rate (2013-2018)
Table Europe GaN Power Devices Sales by Manufacturer (2016-2017)
Figure Europe GaN Power Devices Sales Market Share by Manufacturer in 2016
Figure Europe GaN Power Devices Sales Market Share by Manufacturer in 2017
Table Europe GaN Power Devices Revenue by Manufacturer (2016-2017)
Figure Europe GaN Power Devices Revenue Market Share by Manufacturer in 2016
Figure Europe GaN Power Devices Revenue Market Share by Manufacturer in 2017
Table Europe GaN Power Devices Sales by Type (2013-2018)
Table Europe GaN Power Devices Sales Share by Type (2013-2018)
Table Europe GaN Power Devices Revenue by Type (2013-2018)
Table Europe GaN Power Devices Revenue Share by Type (2013-2018)
Table Europe GaN Power Devices Sales by Application (2013-2018)
Table Europe GaN Power Devices Sales Share by Application (2013-2018)
Table Europe GaN Power Devices Revenue by Application (2013-2018)
Table Europe GaN Power Devices Revenue Share by Application (2013-2018)
Figure Asia-Pacific GaN Power Devices Revenue and Growth Rate (2013-2018)
Table Asia-Pacific GaN Power Devices Sales by Countries (2013-2018)
Table Asia-Pacific GaN Power Devices Sales Market Share by Countries (2013-2018)
Figure Asia-Pacific GaN Power Devices Sales Market Share by Countries 2017
Table Asia-Pacific GaN Power Devices Revenue by Countries (2013-2018)
Figure Asia-Pacific GaN Power Devices Revenue Market Share by Countries 2017
Figure China GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Japan GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Korea GaN Power Devices Sales and Growth Rate (2013-2018)
Figure India GaN Power Devices Sales and Growth Rate (2013-2018)
Figure Southeast Asia GaN Power Devices Sales and Growth Rate (2013-2018)
Table Asia-Pacific GaN Power Devices Sales by Manufacturer (2016-2017)
Figure Asia-Pacific GaN Power Devices Sales Market Share by Manufacturer in 2016
Figure Asia-Pacific GaN Power Devices Sales Market Share by Manufacturer in 2017
Table Asia-Pacific GaN Power Devices Revenue by Manufacturer (2016-2017)
Figure Asia-Pacific GaN Power Devices Revenue Market Share by Manufacturer in 2016

Figure Asia-Pacific GaN Power Devices Revenue Market Share by Manufacturer in 2017

Table Asia-Pacific GaN Power Devices Sales by Type (2013-2018)

Table Asia-Pacific GaN Power Devices Sales Share by Type (2013-2018)

Table Asia-Pacific GaN Power Devices Revenue by Type (2013-2018)

Table Asia-Pacific GaN Power Devices Revenue Share by Type (2013-2018)

Table Asia-Pacific GaN Power Devices Sales by Application (2013-2018)

Table Asia-Pacific GaN Power Devices Sales Share by Application (2013-2018)

Table Asia-Pacific GaN Power Devices Revenue by Application (2013-2018)

Table Asia-Pacific GaN Power Devices Revenue Share by Application (2013-2018)

Figure South America GaN Power Devices Revenue and Growth Rate (2013-2018)

Table South America GaN Power Devices Sales by Countries (2013-2018)

Table South America GaN Power Devices Sales Market Share by Countries (2013-2018)

Figure South America GaN Power Devices Sales Market Share by Countries in 2017

Table South America GaN Power Devices Revenue by Countries (2013-2018)

Table South America GaN Power Devices Revenue Market Share by Countries (2013-2018)

Figure South America GaN Power Devices Revenue Market Share by Countries in 2017

Figure Brazil GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Argentina GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Colombia GaN Power Devices Sales and Growth Rate (2013-2018)

Table South America GaN Power Devices Sales by Manufacturer (2016-2017)

Figure South America GaN Power Devices Sales Market Share by Manufacturer in 2016

Figure South America GaN Power Devices Sales Market Share by Manufacturer in 2017

Table South America GaN Power Devices Revenue by Manufacturer (2016-2017)

Figure South America GaN Power Devices Revenue Market Share by Manufacturer in 2016

Figure South America GaN Power Devices Revenue Market Share by Manufacturer in 2017

Table South America GaN Power Devices Sales by Type (2013-2018)

Table South America GaN Power Devices Sales Share by Type (2013-2018)

Table South America GaN Power Devices Revenue by Type (2013-2018)

Table South America GaN Power Devices Revenue Share by Type (2013-2018)

Table South America GaN Power Devices Sales by Application (2013-2018)

Table South America GaN Power Devices Sales Share by Application (2013-2018)

Table South America GaN Power Devices Revenue by Application (2013-2018)

Table South America GaN Power Devices Revenue Share by Application (2013-2018)

Figure Middle East and Africa GaN Power Devices Revenue and Growth Rate (2013-2018)

Table Middle East and Africa GaN Power Devices Sales by Countries (2013-2018)

Table Middle East and Africa GaN Power Devices Sales Market Share by Countries (2013-2018)

Figure Middle East and Africa GaN Power Devices Sales Market Share by Countries in 2017

Table Middle East and Africa GaN Power Devices Revenue by Countries (2013-2018)

Table Middle East and Africa GaN Power Devices Revenue Market Share by Countries (2013-2018)

Figure Middle East and Africa GaN Power Devices Revenue Market Share by Countries in 2013

Figure Middle East and Africa GaN Power Devices Revenue Market Share by Countries in 2017

Figure Saudi Arabia GaN Power Devices Sales and Growth Rate (2013-2018)

Figure UAE GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Egypt GaN Power Devices Sales and Growth Rate (2013-2018)

Figure Nigeria GaN Power Devices Sales and Growth Rate (2013-2018)

Figure South Africa GaN Power Devices Sales and Growth Rate (2013-2018)

Table Middle East and Africa GaN Power Devices Sales by Manufacturer (2016-2017)

Figure Middle East and Africa GaN Power Devices Sales Market Share by Manufacturer in 2016

Figure Middle East and Africa GaN Power Devices Sales Market Share by Manufacturer in 2017

Table Middle East and Africa GaN Power Devices Revenue by Manufacturer (2016-2017)

Figure Middle East and Africa GaN Power Devices Revenue Market Share by Manufacturer in 2016

Figure Middle East and Africa GaN Power Devices Revenue Market Share by Manufacturer in 2017

Table Middle East and Africa GaN Power Devices Sales by Type (2013-2018)

Table Middle East and Africa GaN Power Devices Sales Share by Type (2013-2018)

Table Middle East and Africa GaN Power Devices Revenue by Type (2013-2018)

Table Middle East and Africa GaN Power Devices Revenue Share by Type (2013-2018)

Table Middle East and Africa GaN Power Devices Sales by Application (2013-2018)

Table Middle East and Africa GaN Power Devices Sales Share by Application (2013-2018)

Table Middle East and Africa GaN Power Devices Revenue by Application (2013-2018)

Table Middle East and Africa GaN Power Devices Revenue Share by Application (2013-2018)

Table Global GaN Power Devices Sales by Type (2013-2018)

Table Global GaN Power Devices Sales Share by Type (2013-2018)

Table Global GaN Power Devices Revenue by Type (2013-2018)

Table Global GaN Power Devices Revenue Share by Type (2013-2018)

Figure Global 600V Sales Growth (2013-2018)

Figure Global 600V Price (2013-2018)

Figure Global Other Sales Growth (2013-2018)

Figure Global Other Price (2013-2018)

Table Global GaN Power Devices Sales by Application (2013-2018)

Table Global GaN Power Devices Sales Share by Application (2013-2018)

Figure Global Server and Other IT Equipments Sales Growth (2013-2018)

Figure Global High-efficiency and Stable Power Supplies Sales Growth (2013-2018)

Figure Global Rapidly Expanding HEV/EV Devices Sales Growth (2013-2018)

Figure Global GaN Power Devices Sales, Revenue and Growth Rate (2018-2023)

Table Global GaN Power Devices Sales Forecast by Regions (2018-2023)

Table Global GaN Power Devices Market Share Forecast by Regions (2018-2023)

Figure North America Sales GaN Power Devices Market Forecast (2018-2023)

Figure Europe Sales GaN Power Devices Market Forecast (2018-2023)

Figure Asia-Pacific Sales GaN Power Devices Market Forecast (2018-2023)

Figure South America Sales GaN Power Devices Market Forecast (2018-2023)

Figure Middle East and Africa Sales GaN Power Devices Market Forecast (2018-2023)

Table Global GaN Power Devices Sales Forecast by Type (2018-2023)

Table Global GaN Power Devices Market Share Forecast by Type (2018-2023)

Table Global GaN Power Devices Sales Forecast by Application (2018-2023)

Table Global GaN Power Devices Market Share Forecast by Application (2018-2023)

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