

Power Amplifier Market by Product (Audio Power Amplifier, Radio Power Amplifier), Class (Class AB, Class C, Class D), Technology, Vertical (Consumer Electronics, Industrial, Telecommunication, Automotive) and Region - Global Forecast to 2023

<https://marketpublishers.com/r/PBCBF1E758CEN.html>

Date: November 2018

Pages: 135

Price: US\$ 5,650.00 (Single User License)

ID: PBCBF1E758CEN

Abstracts

“The overall power amplifier market is expected to grow at a CAGR of 7.4% from 2018 to 2023”

The power amplifier market is expected to grow from USD 21.4 billion in 2018 to USD 30.6 billion by 2023, at a CAGR of 7.4% between 2018 and 2023. The increasing popularity of consumer electronics and use of LTE technology are driving the growth of the power amplifier market. Further, need for quality audio is contributing to the growth of the power amplifier market. However, reduced price margin due to highly fragmented industry may erode profits and restrict the market growth.

“The power amplifier market for RF power amplifiers is expected to continue hold the largest share during the forecast period”

The RF power amplifier market is expected to continue hold the largest market share during the forecast period. RF power amplifiers have several use cases in telecom and military & defense verticals, which also cost high. These are used in several high power wireless transmission devices and equipment requiring input signals at thousands of kilowatts of power. There are two types of RF power amplifiers: traveling wave tube amplifiers (TWTAs) and solid-state power amplifiers (SSPAs). SSPA is expected to substitute TWTAs during the forecast period owing to compact design and high lifespan of SSPA.

“The market for industrial vertical is expected to witness highest growth from 2018 to 2023”

The market for industrial vertical is expected to grow at a significant CAGR during the forecast period. The adoption of industrial automation in countries focused on manufacturing sector is expected to be the driving factor for the power amplifier market. Further, the market for telecommunication vertical is also expected to grow at a considerable rate during the forecast period. The growing adoption of 4G technology and upcoming 5G technology are the key factors for this growth.

“APAC is likely to witness highest growth during the forecast period”

APAC is expected to continue lead the power amplifier market and also expected to be the fastest growing region. This is mainly attributed to the presence of key electronics manufacturers such as Samsung, Hitachi, Nissan, Panasonic, and Honda. China, Japan, South Korea, and India offer some of the prolific electronics manufacturers in APAC. Therefore, there is a continuous demand for power amplifiers in APAC.

Break-up of the profiles of primary participants:

By Company Type: Tier 1 – 65%, Tier 2 – 10%, and Tier 3 – 25%

By Designation: C-Level Executives – 74% and Others – 26%

By Region: North America – 35%, Europe – 15%, APAC – 40%, and RoW – 10%

A few power amplifier ecosystem players are as follows: Infineon Technologies (Germany), Texas Instruments (US), Broadcom (US), Toshiba (Japan), STMicroelectronics (Switzerland), Maxim Integrated (US), Yamaha (Japan), Qorvo (US), NXP Semiconductors (Netherlands), Analog Devices (US), Skyworks Solutions (US), QSC Audio Products (US), Peavey Electronics (US), Qualcomm (US), MACOM (US), BONN Elektronik (Germany), Renesas Electronics (Japan), ETL Systems (UK), Aemulus (Malaysia), and OPHIR RF (US).

Research Coverage:

This research report segments the global power amplifier market on the basis of product, class, technology, vertical, and geography. The report discusses major drivers,

restraints, challenges, and opportunities pertaining to the power amplifier market and also include value chain. The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall power amplifier market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS
- 2.5 LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES FOR THE POWER AMPLIFIER MARKET
- 4.2 POWER AMPLIFIER MARKET, BY PRODUCT
- 4.3 POWER AMPLIFIER MARKET, BY VERTICAL
- 4.4 POWER AMPLIFIER MARKET IN APAC, BY COUNTRY AND VERTICAL
- 4.5 POWER AMPLIFIER MARKET, BY COUNTRY

5 MARKET OVERVIEW

Power Amplifier Market by Product (Audio Power Amplifier, Radio Power Amplifier), Class (Class AB, Class C, Cl...

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Increasing popularity of consumer electronics

5.2.1.2 Increasing usage of LTE technology

5.2.1.3 Need for quality audio

5.2.2 RESTRAINTS

5.2.2.1 Reduced price margin due to highly fragmented industry

5.2.3 OPPORTUNITIES

5.2.3.1 Upcoming 5G technology

5.2.3.2 Growing penetration of IoT

5.2.4 CHALLENGES

5.2.4.1 Design and complexity challenges for better efficiency

5.3 VALUE CHAIN ANALYSIS

6 POWER AMPLIFIER MARKET, BY PRODUCT

6.1 INTRODUCTION

6.2 AUDIO POWER AMPLIFIER

6.2.1 ADOPTION OF CONSUMER ELECTRONICS TO INCREASE AUDIO POWER AMPLIFIER DEMAND

6.3 RF POWER AMPLIFIER

6.3.1 TRAVELLING WAVE TUBE AMPLIFIER (TWTA)

6.3.1.1 TWTA to be mainly used in high power RF applications

6.3.2 SOLID STATE POWER AMPLIFIER (SSPA)

6.3.2.1 SSPA to substitute TWTA due to its compact design and high life span

7 POWER AMPLIFIER MARKET, BY CLASS

7.1 INTRODUCTION

7.2 CLASS A POWER AMPLIFIER

7.2.1 CLASS A DEMAND HIGH DUE TO ITS SIMPLE DESIGN AND LOW COST

7.3 CLASS B POWER AMPLIFIER

7.3.1 CLASS B REDUCES THE HEATING ISSUES WITH CLASS A

7.4 CLASS AB POWER AMPLIFIER

7.4.1 HIGH SOUND QUALITY, LOW DISTORTION AND SIMPLE DESIGN OF CLASS AB POWER AMPLIFIER TO INCREASE ITS DEMAND

7.5 CLASS C POWER AMPLIFIER

7.5.1 MAINLY USED IN HIGH POWER RF APPLICATIONS

7.6 CLASS D POWER AMPLIFIER

7.6.1 VERY HIGH EFFICIENCY AND LOW POWER DISSIPATION TO INCREASE THE DEMAND FOR CLASS D POWER AMPLIFIER

7.7 OTHER CLASSES

8 POWER AMPLIFIER MARKET, BY TECHNOLOGY

8.1 INTRODUCTION

8.2 SILICON

8.2.1 LOW COST, AND HIGH AVAILABILITY KEY FOR HIGH DEMAND FOR SILICON-BASED RF POWER AMPLIFIER

8.3 SILICON GERMANIUM

8.3.1 GROWING NEED FOR HIGH SPEED COMMUNICATION KEY FACTOR DRIVING GROWTH OF SIGE-BASED POWER AMPLIFIER

8.4 GALLIUM ARSENIDE

8.4.1 GAAS IS VERY USEFUL FOR ULTRAHIGH RADIO FREQUENCY APPLICATIONS IN POWER AMPLIFIER

8.5 OTHER TECHNOLOGIES

9 POWER AMPLIFIER MARKET, BY VERTICAL

9.1 INTRODUCTION

9.2 CONSUMER ELECTRONICS

9.2.1 GROWING ADOPTION OF NEW SMARTPHONES AND DEMAND FOR POWER AMPLIFIER IN CONSUMER ELECTRONICS

9.3 INDUSTRIAL

9.3.1 GROWING TREND TOWARDS INDUSTRIAL AUTOMATION TO DRIVE POWER AMPLIFIER DEMAND IN INDUSTRIAL VERTICAL

9.4 TELECOMMUNICATION

9.4.1 DEPLOYMENT OF 3G AND 4G ALONG WITH UPCOMING 5G TO DRIVE POWER AMPLIFIER DEMAND IN TELECOMMUNICATION VERTICAL

9.5 MILITARY AND DEFENSE

9.5.1 POWER AMPLIFIERS WITH HIGH QUALITY AND PERFORMANCE ARE REQUIRED TO DEVELOP RELIABLE EQUIPMENTS FOR MILITARY & DEFENSE VERTICAL

9.6 AUTOMOTIVE

9.6.1 GROWING TRACTION FOR CONNECTED CARS TO INCREASE THE DEMAND FOR POWER AMPLIFIERS IN AUTOMOTIVE VERTICAL

10 GEOGRAPHIC ANALYSIS

10.1 INTRODUCTION

10.2 NORTH AMERICA

10.2.1 US

10.2.1.1 Growing number of trials of 5G technology and autonomous cars to boost power amplifier demand in the US

10.2.2 CANADA

10.2.2.1 High usage of consumer electronics in Canada to increase power amplifier demand

10.2.3 MEXICO

10.2.3.1 High smartphone adoption rate along with proliferation of IIoT to increase power amplifier demand in Mexico

10.3 EUROPE

10.3.1 GERMANY

10.3.1.1 Implementation of IoT in manufacturing and automotive industries to increase power amplifier demand in Germany

10.3.2 UK

10.3.2.1 High demand in consumer electronics and military segment to contribute to the power amplifier market growth in the UK

10.3.3 FRANCE

10.3.3.1 Nation-wide plans to revive the French industrial sector to increase power amplifier demand

10.3.4 REST OF EUROPE

10.4 ASIA PACIFIC (APAC)

10.4.1 CHINA

10.4.1.1 high number of planned 5G trials along with presence of large semiconductor industry to increase power amplifier demand in China

10.4.2 JAPAN

10.4.2.1 Advancement in robotics and other cutting edge technology in manufacturing sector to increase power amplifier demand in Japan

10.4.3 SOUTH KOREA

10.4.3.1 5G trials in Pyeongchang Olympics increased the demand for power amplifier

10.4.4 REST OF APAC

10.5 REST OF THE WORLD (ROW)

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 RANKING ANALYSIS

11.3 COMPETITIVE SCENARIO

11.3.1 PRODUCT LAUNCHES AND DEVELOPMENTS

11.3.2 MERGERS AND ACQUISITIONS

11.3.3 PARTNERSHIPS

11.3.4 CONTRACTS

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, and MnM View)*

12.1 KEY PLAYERS

12.1.1 INFINEON TECHNOLOGIES

12.1.2 TEXAS INSTRUMENTS

12.1.3 BROADCOM

12.1.4 TOSHIBA

12.1.5 STMICROELECTRONICS

12.1.6 MAXIM INTEGRATED

12.1.7 YAMAHA CORPORATION

12.1.8 QORVO

12.1.9 NXP SEMICONDUCTOR

12.1.10 ANALOG DEVICES

12.2 OTHER ECOSYSTEM PLAYERS

12.2.1 SKYWORKS

12.2.2 QSC AUDIO PRODUCTS

12.2.3 PEAVEY ELECTRONICS

12.2.4 QUALCOMM

12.2.5 MACOM

12.2.6 BONN ELEKTRONIK

12.2.7 RENESAS ELECTRONICS

12.2.8 ETL SYSTEM

12.2.9 AEMULUS CORPORATION

12.2.10 OPHIR RF

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, and MnM View might not be captured in case of unlisted companies.

13 APPENDIX

13.1 INSIGHTS OF INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.4 AVAILABLE CUSTOMIZATIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 POWER AMPLIFIER MARKET, BY PRODUCT, 2015–2023 (USD BILLION)

Table 2 POWER AMPLIFIER MARKET, BY PRODUCT, 2015–2023 (BILLION UNITS)

Table 3 AUDIO POWER AMPLIFIER MARKET, BY END USE, 2015–2023 (USD MILLION)

Table 4 AUDIO POWER AMPLIFIER MARKET, BY END USE, 2015–2023 (MILLION UNITS)

Table 5 AUDIO POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS, BY SUB-TYPE, 2015–2023 (USD MILLION)

Table 6 AUDIO POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS, BY SUB-TYPE, 2015–2023 (MILLION UNITS)

Table 7 AUDIO POWER AMPLIFIER MARKET, BY REGION, 2015–2023 (USD MILLION)

Table 8 AUDIO POWER AMPLIFIER MARKET, BY REGION, 2015–2023 (MILLION UNITS)

Table 9 RF POWER AMPLIFIER MARKET, BY TYPE, 2015–2023 (USD BILLION)

Table 10 RF POWER AMPLIFIER MARKET, BY END USE, 2015–2023 (USD MILLION)

Table 11 RF POWER AMPLIFIER MARKET, BY END USE, 2015–2023 (MILLION UNITS)

Table 12 RF POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS, BY SUB-TYPE, 2015–2023 (USD MILLION)

Table 13 RF POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS, BY SUB-TYPE, 2015–2023 (MILLION UNITS)

Table 14 RF POWER AMPLIFIER MARKET, BY REGION, 2015–2023 (USD MILLION)

Table 15 RF POWER AMPLIFIER MARKET, BY REGION, 2015–2023 (MILLION UNITS)

Table 16 POWER AMPLIFIER MARKET, BY CLASS, 2015–2023 (USD BILLION)

Table 17 POWER AMPLIFIER MARKET, BY CLASS, 2015–2023 (MILLION UNITS)

Table 18 RF POWER AMPLIFIER MARKET, BY TECHNOLOGY, 2015–2023 (USD BILLION)

Table 19 POWER AMPLIFIER MARKET, BY VERTICAL, 2015–2023 (USD MILLION)

Table 20 POWER AMPLIFIER MARKET, BY VERTICAL, 2015–2023 (MILLION UNITS)

Table 21 POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS VERTICAL, BY PRODUCT, 2015–2023 (USD BILLION)

Table 22 POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS

VERTICAL, BY PRODUCT, 2015–2023 (BILLION UNITS)

Table 23 POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS

VERTICAL, BY SUB-TYPE, 2015–2023 (USD MILLION)

Table 24 POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS

VERTICAL, BY SUB-TYPE, 2015–2023 (MILLION UNITS)

Table 25 POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS

VERTICAL, BY REGION, 2015–2023 (USD MILLION)

Table 26 POWER AMPLIFIER MARKET FOR CONSUMER ELECTRONICS

VERTICAL, BY REGION, 2015–2023 (MILLION UNITS)

Table 27 POWER AMPLIFIER MARKET FOR INDUSTRIAL VERTICAL, BY
PRODUCT, 2015–2023 (USD MILLION)

Table 28 POWER AMPLIFIER MARKET FOR INDUSTRIAL VERTICAL, BY
PRODUCT, 2015–2023 (MILLION UNITS)

Table 29 POWER AMPLIFIER MARKET FOR INDUSTRIAL VERTICAL, BY REGION,
2015–2023 (USD MILLION)

Table 30 POWER AMPLIFIER MARKET FOR INDUSTRIAL VERTICAL, BY REGION,
2015–2023 (MILLION UNITS)

Table 31 POWER AMPLIFIER MARKET FOR TELECOMMUNICATION VERTICAL, BY
SUB-TYPE, 2015–2023 (USD MILLION)

Table 32 POWER AMPLIFIER MARKET FOR TELECOMMUNICATION VERTICAL, BY
SUB-TYPE, 2015–2023 (MILLION UNITS)

Table 33 POWER AMPLIFIER MARKET FOR TELECOMMUNICATION VERTICAL, BY
REGION, 2015–2023 (USD MILLION)

Table 34 POWER AMPLIFIER MARKET FOR TELECOMMUNICATION VERTICAL, BY
REGION, 2015–2023 (MILLION UNITS)

Table 35 POWER AMPLIFIER MARKET FOR MILITARY AND DEFENSE VERTICAL,
BY PRODUCT, 2015–2023 (USD MILLION)

Table 36 POWER AMPLIFIER MARKET FOR MILITARY AND DEFENSE VERTICAL,
BY PRODUCT, 2015–2023 (MILLION UNITS)

Table 37 POWER AMPLIFIER MARKET FOR MILITARY AND DEFENSE VERTICAL,
BY REGION, 2015–2023 (USD MILLION)

Table 38 POWER AMPLIFIER MARKET FOR MILITARY AND DEFENSE VERTICAL,
BY REGION, 2015–2023 (MILLION UNITS)

Table 39 POWER AMPLIFIER MARKET FOR AUTOMOTIVE VERTICAL, BY
PRODUCT, 2015–2023 (USD MILLION)

Table 40 POWER AMPLIFIER MARKET FOR AUTOMOTIVE VERTICAL, BY
PRODUCT, 2015–2023 (MILLION UNITS)

Table 41 POWER AMPLIFIER MARKET FOR AUTOMOTIVE VERTICAL, BY REGION,
2015–2023 (USD MILLION)

Table 42 POWER AMPLIFIER MARKET FOR AUTOMOTIVE VERTICAL, BY REGION, 2015–2023 (MILLION UNITS)

Table 43 POWER AMPLIFIER MARKET, BY REGION, 2015–2023 (USD BILLION)

Table 44 POWER AMPLIFIER MARKET, BY REGION, 2015–2023 (MILLION UNITS)

Table 45 POWER AMPLIFIER MARKET IN NORTH AMERICA, BY COUNTRY, 2015–2023 (USD MILLION)

Table 46 POWER AMPLIFIER MARKET IN NORTH AMERICA, BY COUNTRY, 2015–2023 (MILLION UNITS)

Table 47 POWER AMPLIFIER MARKET IN NORTH AMERICA, BY PRODUCT, 2015–2023 (USD BILLION)

Table 48 POWER AMPLIFIER MARKET IN NORTH AMERICA, BY PRODUCT, 2015–2023 (MILLION UNITS)

Table 49 POWER AMPLIFIER MARKET IN NORTH AMERICA, BY VERTICAL, 2015–2023 (USD MILLION)

Table 50 POWER AMPLIFIER MARKET IN NORTH AMERICA, BY VERTICAL, 2015–2023 (MILLION UNITS)

Table 51 POWER AMPLIFIER MARKET IN EUROPE, BY COUNTRY, 2015–2023 (USD MILLION)

Table 52 POWER AMPLIFIER MARKET IN EUROPE, BY COUNTRY, 2015–2023 (MILLION UNITS)

Table 53 POWER AMPLIFIER MARKET IN EUROPE, BY PRODUCT, 2015–2023 (USD BILLION)

Table 54 POWER AMPLIFIER MARKET IN EUROPE, BY PRODUCT, 2015–2023 (MILLION UNITS)

Table 55 POWER AMPLIFIER MARKET IN EUROPE, BY VERTICAL, 2015–2023 (USD MILLION)

Table 56 POWER AMPLIFIER MARKET IN EUROPE, BY VERTICAL, 2015–2023 (MILLION UNITS)

Table 57 POWER AMPLIFIER MARKET IN APAC, BY COUNTRY, 2015–2023 (USD MILLION)

Table 58 POWER AMPLIFIER MARKET IN APAC, BY COUNTRY, 2015–2023 (MILLION UNITS)

Table 59 POWER AMPLIFIER MARKET IN APAC, BY PRODUCT, 2015–2023 (USD BILLION)

Table 60 POWER AMPLIFIER MARKET IN APAC, BY PRODUCT, 2015–2023 (BILLION UNITS)

Table 61 POWER AMPLIFIER MARKET IN APAC, BY VERTICAL, 2015–2023 (USD MILLION)

Table 62 POWER AMPLIFIER MARKET IN APAC, BY VERTICAL, 2015–2023

(MILLION UNITS)

Table 63 POWER AMPLIFIER MARKET IN ROW, BY PRODUCT, 2015–2023 (USD MILLION)

Table 64 POWER AMPLIFIER MARKET IN ROW, BY PRODUCT, 2015–2023 (MILLION UNITS)

Table 65 POWER AMPLIFIER MARKET IN ROW, BY VERTICAL, 2015–2023 (USD MILLION)

Table 66 POWER AMPLIFIER MARKET IN ROW, BY VERTICAL, 2015–2023 (MILLION UNITS)

Table 67 10 MOST RECENT PRODUCT LAUNCHES, DEMONSTRATIONS, AND DEVELOPMENTS IN POWER AMPLIFIER MARKET

Table 68 MERGERS AND ACQUISITIONS IN POWER AMPLIFIER MARKET

Table 69 PARTNERSHIPS IN POWER AMPLIFIER MARKET

Table 70 CONTRACTS IN POWER AMPLIFIER MARKET

List Of Figures

LIST OF FIGURES

Figure 1 POWER AMPLIFIER MARKET SEGMENTATION

Figure 2 POWER AMPLIFIER MARKET: RESEARCH DESIGN

Figure 3 BOTTOM-UP APPROACH TO ARRIVE AT MARKET SIZE

Figure 4 TOP-DOWN APPROACH TO ARRIVE AT MARKET SIZE

Figure 5 DATA TRIANGULATION

Figure 6 POWER AMPLIFIER MARKET, 2015–2023 (USD BILLION)

Figure 7 POWER AMPLIFIER MARKET, BY PRODUCT, 2018 VS. 2023 (USD BILLION)

Figure 8 POWER AMPLIFIER MARKET, BY CLASS, 2015–2023 (USD BILLION)

Figure 9 POWER AMPLIFIER MARKET, BY VERTICAL (2016, 2018, AND 2023)

Figure 10 POWER AMPLIFIER MARKET, BY REGION (2017)

Figure 11 INCREASING POPULARITY OF CONSUMER ELECTRONICS TO DRIVE THE POWER AMPLIFIER MARKET GROWTH

Figure 12 RF POWER AMPLIFIER TO CONTINUE TO DOMINATE THE POWER AMPLIFIER MARKET, BASED ON PRODUCT, TILL 2023

Figure 13 CONSUMER ELECTRONICS TO HOLD THE LARGEST MARKET SHARE OF THE POWER AMPLIFIER MARKET

Figure 14 CHINA HELD THE LARGEST SHARE OF THE POWER AMPLIFIER MARKET IN APAC IN 2017

Figure 15 CHINA TO EXHIBIT SIGNIFICANT GROWTH IN THE POWER AMPLIFIER MARKET DURING 2018–2023

Figure 16 POWER AMPLIFIER MARKET DYNAMICS

Figure 17 KEY SUBSEGMENTS IN THE CONSUMER ELECTRONICS INDUSTRY, Y-O-Y 2017

Figure 18 LTE PENETRATION BY REGION, 2017

Figure 19 VALUE CHAIN ANALYSIS

Figure 20 RF POWER AMPLIFIER SEGMENT TO DOMINATE THE POWER AMPLIFIER MARKET DURING THE FORECAST PERIOD

Figure 21 CLASS D POWER AMPLIFIER TO OVERTAKE CLASS A POWER AMPLIFIER MARKET DURING THE FORECAST PERIOD

Figure 22 GALLIUM ARSENIDE-BASED RF POWER AMPLIFIER SEGMENT TO DOMINATE THE POWER AMPLIFIER MARKET DURING THE FORECAST PERIOD

Figure 23 CONSUMER ELECTRONICS TO DOMINATE THE POWER AMPLIFIER MARKET DURING THE FORECAST PERIOD

Figure 24 GEOGRAPHIC SNAPSHOT OF POWER AMPLIFIER MARKET

- Figure 25 POWER AMPLIFIER MARKET SNAPSHOT IN NORTH AMERICA
- Figure 26 POWER AMPLIFIER MARKET SNAPSHOT IN EUROPE
- Figure 27 POWER AMPLIFIER MARKET SNAPSHOT IN APAC
- Figure 28 POWER AMPLIFIER MARKET SNAPSHOT IN ROW
- Figure 29 KEY DEVELOPMENTS ADOPTED BY LEADING PLAYERS IN POWER AMPLIFIER MARKET BETWEEN JUNE 2015 AND JUNE 2018
- Figure 30 RANK OF POWER AMPLIFIER MARKET PLAYERS, 2017
- Figure 31 INFINEON TECHNOLOGIES: COMPANY SNAPSHOT
- Figure 32 TEXAS INSTRUMENTS: COMPANY SNAPSHOT
- Figure 33 BROADCOM: COMPANY SNAPSHOT
- Figure 34 TOSHIBA: COMPANY SNAPSHOT
- Figure 35 STMICROELECTRONICS: COMPANY SNAPSHOT
- Figure 36 MAXIM INTEGRATED: COMPANY SNAPSHOT
- Figure 37 YAMAHA CORPORATION: COMPANY SNAPSHOT
- Figure 38 QORVO: COMPANY SNAPSHOT
- Figure 39 NXP SEMICONDUCTOR: COMPANY SNAPSHOT
- Figure 40 ANALOG DEVICES: COMPANY SNAPSHOT

I would like to order

Product name: Power Amplifier Market by Product (Audio Power Amplifier, Radio Power Amplifier), Class (Class AB, Class C, Class D), Technology, Vertical (Consumer Electronics, Industrial, Telecommunication, Automotive) and Region - Global Forecast to 2023

Product link: <https://marketpublishers.com/r/PBCBF1E758CEN.html>

Price: US\$ 5,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PBCBF1E758CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970