

# **Display Driver Market by Driver Type (DDIC, TDDI), Package Type (COF, COG), Device (Smartphone, Television, Automotive, Smart Wearables, HMD, Monitor), Display Technology (LCD, OLED), Display Size, and Geography - Global Forecast to 2023**

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## **Abstracts**

“Increasing demand for OLED and flexible displays and highly priced and advanced display drivers are driving the display driver market toward significant growth”

The display driver market is estimated to grow from USD 7.1 billion in 2018 to USD 9.1 billion by 2023, at a CAGR of 5.1% between 2018 and 2023. Growth in the use of 4K and 8K televisions and availability of UHD content, and evolving role of DDICs in individual components and single integration chips also drive the growth of the market for display driver ICs.

The construction of new OLED and LCD panel manufacturing facilities, development of display drivers based on chip-on-film packages, and innovations in TDDI-type display drivers are the major for display driver manufacturers in future. Smartphone, television, automotive, and smart wearable segments are expected to offer opportunities to display driver manufacturers in the market. Increasing demand for display panels with high resolution, fast response time, and better picture quality is expected to influence the display driver market toward major innovations and subsequently significant growth. However, saturated growth and declining volumes of shipments of display panels of TVs, tablets, and monitors is restraining the growth of display driver market. High competition and demand for diverse product specifications, increasing RAM capacity of display drivers for high-resolution displays, and rapid advancements in display panel technology are the major challenges faced by display driver IC suppliers.

LCD displays to account for major share of display driver market during forecast period

LCD displays are likely to hold a major share of the display driver market during the forecast period. The market is expected to witness growth in the LCD segment for the next 3 years mainly due to the construction of various LCD panel manufacturing facilities in China, which will increase the production of LCD displays and subsequently increase the demand for display drivers for a majority of the applications. China is emerging as a leading country in terms of LCD display production due to the closure of several LCD manufacturing facilities by Samsung and LG Display in the last three years. However, with high competition in the market and disruption in supply demand ratio, the market for LCD displays is expected to saturate 2020 onward. The display driver market for OLED displays is expected to grow continuously during the forecast period as OLED and flexible displays are trending in the display market with their increasing adoption in smart devices such as smartphones, wearables (smartwatch, AR/VR HMDs), and smart TV.

COF-type packages and TDDI-type drivers to witness high growth in the market during the forecast period

Chip-on-Film (COF) package is the new trend in display driver market, innovation behind full-view displays in smartphones. Major players are focused on developing COF package-based display drivers due to high demand for smartphones with full-view display. COF package method has features such as high density, high ping count, fine pitch, gong bond, high throughput, and high reliability. It also weighs lighter and flexible, and can be produced by reel to reel, which are not possible through traditional packaging methods. The flexible qualities of COF make it possible to design the side area of a screen, often called the bezel, to be narrower compared with COG. This results in a relatively larger screen-to-body ratio. TDDI-type display drivers emerged as revolutionary concept for display panel manufacturers which offers reduced form factor as well as cost reduction for customers. The market for TDDI is expected to be boosted by the growing popularity of bezel-less smartphones (all screen designs of smartphones or borderless designs). The TDDI growth can be expected from smartphone, smart wearables, automotive, and laptop segments for next five years. Demand for DDICs is expected to decline rapidly in these devices; however, devices such as television, monitor, automotive, and others will be the major adopters of DDICs during the forecast period.

South Korea to account for major share in display driver market during forecast period

South Korea is expected to account for the highest market share of the display driver market during the forecast period. South Korea accounts for more than 95% of total OLED display panel production owing to which demand for a majority of OLED-based display drivers is emerging from South Korea. With huge investments from Samsung and LG Display in OLED technology and their production expansion, South Korea is expected to dominate the market, in terms of size, during the forecast period. South Korea, however, is expected to witness declined share in the LCD segment during the forecast period, mainly due to the growing demand from China. South Korean players, Samsung and LG Display, closed various LCD panel manufacturing facilities and invested in OLED technology expansion, which resulted in the decreased share of South Korea in LCD production.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with people holding key positions across several regions. The breakup of the profiles of primary participants has been given below:

By Company Type: Tier 1: 30%, Tier 2: 45%, and Tier 3: 25%

By Designation: C-level Executives: 20%, Directors: 55%, and Others 25%

By Region: North America: 15%, Europe: 25%, APAC: 60%

The major players in the display driver market are: Samsung Electronics (South Korea), Novatek Microelectronics (Taiwan), Synaptics (US), Himax Technologies (Taiwan), Silicon Works (South Korea), Sitronix Technology (Taiwan), Raydium Semiconductor (Taiwan), Magnachip Semiconductor (Luxembourg & South Korea), FocalTech (Taiwan), MediaTek (Taiwan), ROHM Semiconductor (Japan), Fitipower Integrated Technology (Taiwan), OLiGHTeK (China), Solomon Systech (Hong Kong), Microchip Technology (US), SolasOLED (Ireland), Dialog Semiconductor (UK), , Lucid Display Technology (South Korea), SINOWEALTH Electronics (China), and UltraChip (Taiwan).

#### Research Coverage:

The report defines, describes, and forecasts the display driver market on the basis of display size & devices, display technology, driver & package type and geography. It provides detailed information regarding the major factors influencing the growth of the

display driver market (drivers, restraints, opportunities, and industry-specific challenges). It also analyses the competitive developments such as joint ventures, collaborations, agreements, contracts, partnerships, mergers and acquisitions, and product launches carried out by key players to grow in the market.

#### Reasons to Buy the Report:

Illustrative segmentation, analysis, and forecast pertaining to the display driver market based on display size & devices, display technology, driver & package type and geography have been conducted to provide an overall view of the display driver market.

Major drivers, restraints, opportunities, and challenges for the display driver market have been detailed in this report.

The report includes a detailed competitive landscape of the key players in the market and their revenues.

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 GEOGRAPHIC SCOPE
- 1.4 YEARS CONSIDERED FOR THE STUDY
- 1.5 CURRENCY
- 1.6 MARKET 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 Key industry insights
    - 2.1.2.2 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

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN DISPLAY DRIVER MARKET
- 4.2 GLOBAL DISPLAY PANEL SHIPMENTS, BY DEVICE, 2015–2023
- 4.3 DISPLAY DRIVER MARKET, BY DRIVER AND PACKAGE TYPE, 2015 VS. 2018 VS. 2023
- 4.4 DISPLAY DRIVER MARKET, BY DISPLAY TECHNOLOGY, 2018 VS. 2023
- 4.5 DISPLAY DRIVER MARKET OPPORTUNITY ANALYSIS, BY DEVICE
- 4.6 DISPLAY DRIVER MARKET, BY DEVICE SIZE AND COUNTRY, 2018 VS. 2023
- 4.7 DISPLAY DRIVER MARKET, BY COUNTRY, 2015 VS. 2018 VS. 2023

## 4.8 DISPLAY DRIVER MARKET IN CHINA, BY DEVICE, 2015–2023

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

#### 5.2.1 DRIVERS

5.2.1.1 Increasing OLED and flexible display demand

5.2.1.2 Increasing demand for highly priced and advanced display drivers

5.2.1.3 Growth in use of 4K & 8K televisions and availability of UHD content

5.2.1.4 Increasing demand for automotive displays

5.2.1.5 Evolving role of DDICs from individual components to single integration chips

#### 5.2.2 RESTRAINTS

5.2.2.1 Saturated growth and declining volumes of shipments of display panels of TVs, tablets, and monitors

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Development of COF package-based display drivers and innovations in TDDI-type display drivers

5.2.3.2 Construction of new OLED and LCD panel manufacturing facilities

5.2.3.3 Increasing demand for wearable displays for smartwatches and AR/VR HMDs

5.2.3.4 Emerging display technologies—micro-LED and true quantum dot

5.2.3.5 Emerging new applications for display panels

#### 5.2.4 CHALLENGES

5.2.4.1 High competition and demand for diverse product specifications

5.2.4.2 Increasing RAM capacity of DDICs for high-resolution displays

5.2.4.3 Rapid advancements in display panel technology

## 6 INDUSTRY TRENDS

### 6.1 INTRODUCTION

### 6.2 VALUE CHAIN ANALYSIS

#### 6.2.1 RESEARCH AND DEVELOPMENT

#### 6.2.2 DDIC MANUFACTURING

#### 6.2.3 DISPLAY PANEL INTEGRATION

#### 6.2.4 INPUT COMPONENTS AND MATERIALS

### 6.3 KEY TRENDS IN DISPLAY DRIVER MARKET

#### 6.3.1 TOUCH AND DISPLAY DRIVER INTEGRATION (TDDI)

#### 6.3.2 PACKAGE TYPE (COF & COG)

### 6.4 KEY DISPLAY PANEL TRENDS IMPACTING DISPLAY DRIVER MARKET

- 6.4.1 OLED
- 6.4.2 QUANTUM DOT
- 6.4.3 MICRO-LED
- 6.4.4 FLEXIBLE DISPLAYS

## **7 DISPLAY DRIVER MARKET, BY DISPLAY SIZE & DEVICES**

### **7.1 INTRODUCTION**

### **7.2 SMALL DEVICES**

#### **7.2.1 SMARTPHONE**

7.2.1.1 South Korea to dominate display driver market for smartphone

#### **7.2.2 TABLET**

7.2.2.1 Display driver demand for tablets to decline during forecast period

#### **7.2.3 AUTOMOTIVE DISPLAY**

7.2.3.1 Display driver market to witness significant growth in automotive segment

#### **7.2.4 OTHERS**

7.2.4.1 Display driver market for other small devices to decline during the forecast period

### **7.3 MEDIUM-SIZED AND LARGE DEVICES**

#### **7.3.1 TELEVISION**

7.3.1.1 Television to witness growth in display driver market due to increasing resolution and size

#### **7.3.2 MONITOR & NOTEBOOK**

7.3.2.1 Display driver market to witness decline in monitor & notebook segment

#### **7.3.3 OTHERS**

7.3.3.1 Other medium-sized and large devices to account for minor share in display driver market

### **7.4 SMART WEARABLES**

#### **7.4.1 SMARTWATCH**

7.4.1.1 Smartwatch accounted for major share in display driver market for smart wearables

#### **7.4.2 AR HMD**

7.4.2.1 Display driver market for AR HMD to surge rapidly during the forecast period

#### **7.4.3 VR HMD**

7.4.3.1 Display driver market for VR HMD to grow rapidly during the forecast period

## **8 DISPLAY DRIVER MARKET, BY DISPLAY TECHNOLOGY**

### **8.1 INTRODUCTION**



## 8.2 LCD

8.2.1 DISPLAY DRIVER MARKET FOR LCD DISPLAYS TO BE HIGHLY COMPETITIVE DURING FORECAST PERIOD

## 8.3 OLED

8.3.1 OLED DISPLAYS EXPECTED TO DEFINE THE GROWTH OF GLOBAL DISPLAY DRIVER MARKET DURING FORECAST PERIOD

## 8.4 OTHERS

8.4.1 MAJOR DEMAND OF DISPLAY DRIVERS FOR OTHER DISPLAY TECHNOLOGIES TO EMERGE FROM CHINA, TAIWAN, AND ROW

# 9 DISPLAY DRIVER MARKET, BY DRIVER & PACKAGE TYPE

## 9.1 MARKET BY DRIVER TYPE

### 9.1.1 DISPLAY DRIVER IC (DDIC)

9.1.1.1 DDIC-type display drivers to account for major share in the market during forecast period

### 9.1.2 TOUCH AND DISPLAY DRIVER INTEGRATION (TDDI)

9.1.2.1 Market for TDDI-type display drivers to grow at a higher CAGR during forecast period

## 9.2 MARKET BY PACKAGE TYPE

### 9.2.1 CHIP-ON-GLASS (COG)

9.2.1.1 Display driver market for COG package-based display drivers expected to decline during forecast period

### 9.2.2 CHIP-ON-FILM (COF)

9.2.2.1 COF package-based display drivers to witness rapid growth in the market during forecast period

# 10 GEOGRAPHIC ANALYSIS

## 10.1 INTRODUCTION

## 10.2 SOUTH KOREA

10.2.1 OLED DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN SOUTH KOREA DURING FORECAST PERIOD

## 10.3 CHINA

10.3.1 LCD DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN CHINA DURING FORECAST PERIOD

## 10.4 TAIWAN

10.4.1 SMALL DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN TAIWAN DURING FORECAST PERIOD



## 10.5 JAPAN

10.5.1 DISPLAY DRIVER MARKET TO WITNESS GROWTH FOR SMART WEARABLES IN JAPAN DURING FORECAST PERIOD

## 10.6 REST OF THE WORLD (ROW)

10.6.1 MAJOR DEMAND FOR DISPLAY DRIVERS TO EMERGE FOR OTHER DISPLAY TECHNOLOGIES IN ROW REGION

# 11 COMPETITIVE LANDSCAPE

## 11.1 OVERVIEW

## 11.2 PLAYER MARKET SHARE IN DISPLAY DRIVER MARKET

## 11.3 COMPETITIVE SCENARIO

### 11.3.1 PRODUCT LAUNCHES AND DEVELOPMENTS

### 11.3.2 MERGERS AND ACQUISITION

# 12 COMPANY PROFILES

## 12.1 INTRODUCTION

(Business overview, Products offered, Recent developments, MNM view, SWOT analysis)\*

## 12.2 KEY PLAYERS

### 12.2.1 SAMSUNG ELECTRONICS

### 12.2.2 NOVATEK MICROELECTRONICS

### 12.2.3 SYNAPTICS

### 12.2.4 HIMAX TECHNOLOGIES

### 12.2.5 SILICON WORKS

### 12.2.6 SITRONIX TECHNOLOGY

### 12.2.7 RAYDIUM SEMICONDUCTOR

### 12.2.8 MAGNACHIP SEMICONDUCTOR

### 12.2.9 FOCALTECH

### 12.2.10 MEDIATEK

### 12.2.11 FITIPOWER INTEGRATED TECHNOLOGY

### 12.2.12 ROHM SEMICONDUCTOR

## 12.3 OTHER PLAYERS

### 12.3.1 OLIGHTEK

### 12.3.2 SOLOMON SYSTECH

### 12.3.3 MICROCHIP TECHNOLOGY

### 12.3.4 SOLASOLED

12.3.5 DIALOG SEMICONDUCTOR

12.3.6 LUCID DISPLAY TECHNOLOGY (LDT)

12.3.7 SINOWEALTH ELECTRONIC

12.3.8 ULTRACHIP

\*Business overview, Products offered, Recent developments, MNM view, SWOT analysis might not be captured in case of unlisted companies.

## **13 APPENDIX**

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 AVAILABLE CUSTOMIZATION

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

Table 1 LCD AND OLED FAB CONSTRUCTION ROADMAP IN CHINA

Table 2 DISPLAY PANEL SHIPMENTS, BY DEVICE, 2015–2023 ( MILLION UNITS)

Table 3 DISPLAY DRIVER MARKET, BY DISPLAY SIZE, 2015–2023 ( USD BILLION)

Table 4 DISPLAY DRIVER MARKET FOR SMALL DEVICES, BY COUNTRY  
2015–2023 (USD BILLION)

Table 5 DISPLAY DRIVER MARKET FOR SMALL DEVICES, BY DEVICE TYPE,  
2015-2023(USD BILLION)

Table 6 DISPLAY DRIVER MARKET FOR SMARTPHONE, BY COUNTRY, 2015-2023  
(USD BILLION)

Table 7 DISPLAY DRIVER MARKET FOR TABLET, BY COUNTRY, 2015-2023 (USD  
MILLION)

Table 8 DISPLAY DRIVER MARKET FOR AUTOMOTIVE DISPLAY, BY COUNTRY,  
2015-2023 (USD MILLION)

Table 9 DISPLAY DRIVER MARKET FOR OTHERS SMALL DEVICES, BY COUNTRY,  
2015-2023 (USD MILLION)

Table 10 DISPLAY DRIVER MARKET FOR MEDIUM-SIZED AND LARGE DEVICES,  
BY COUNTRY, 2015-2023 (USD MILLION)

Table 11 DISPLAY DRIVER MARKET FOR MEDIUM-SIZED AND LARGE DEVICES,  
BY DEVICE TYPE, 2015-2023 (USD MILLION)

Table 12 DISPLAY DRIVER MARKET FOR TELEVISION, BY COUNTRY, 2015-2023  
(USD MILLION)

Table 13 DISPLAY DRIVER MARKET FOR MONITOR & NOTEBOOK, BY COUNTRY,  
2015-2023 (USD MILLION)

Table 14 DISPLAY DRIVER MARKET FOR SMART WEARABLES, BY COUNTRY,  
2015-2023 (USD MILLION)

Table 15 DISPLAY DRIVER MARKET FOR SMART WEARABLES, BY TYPE,  
2015-2023 (USD MILLION)

Table 16 DISPLAY DRIVER MARKET, BY DISPLAY TECHNOLOGY, 2015–2023 (USD  
MILLION)

Table 17 DISPLAY DRIVER MARKET FOR LCD DISPLAYS, BY COUNTRY,  
2015–2023 (USD MILLION)

Table 18 DISPLAY DRIVER MARKET FOR OLED DISPLAYS, BY COUNTRY,  
2015–2023 (USD MILLION)

Table 19 DISPLAY DRIVER MARKET FOR OTHER TECHNOLOGY-BASED  
DISPLAYS, BY COUNTRY, 2015–2023 (USD MILLION)

Table 20 DISPLAY DRIVER MARKET, BY DRIVER TYPE, 2015–2023 ( USD BILLION)

Table 21 DISPLAY DRIVER MARKET, BY PACKAGE TYPE, 2015–2023 ( USD BILLION)

Table 22 DISPLAY DRIVER MARKET, BY COUNTRY, 2015–2023 (USD MILLION)

Table 23 DISPLAY DRIVER MARKET IN SOUTH KOREA, BY DISPLAY TECHNOLOGY, 2015–2023 (USD MILLION)

Table 24 DISPLAY DRIVER MARKET IN SOUTH KOREA, BY DISPLAY SIZE, 2015–2023 (USD MILLION)

Table 25 DISPLAY DRIVER MARKET IN SOUTH KOREA, BY DEVICE, 2015–2023 (USD MILLION)

Table 26 DISPLAY DRIVER MARKET IN CHINA, BY DISPLAY TECHNOLOGY, 2015–2023 (USD MILLION)

Table 27 DISPLAY DRIVER MARKET IN CHINA, BY DISPLAY SIZE, 2015–2023 (USD MILLION)

Table 28 DISPLAY DRIVER MARKET IN CHINA, BY DEVICE, 2015–2023 (USD MILLION)

Table 29 DISPLAY DRIVER MARKET IN TAIWAN, BY DISPLAY TECHNOLOGY, 2015–2023 (USD MILLION)

Table 30 DISPLAY DRIVER MARKET IN TAIWAN, BY DISPLAY SIZE, 2015–2023 (USD MILLION)

Table 31 DISPLAY DRIVER MARKET IN TAIWAN, BY DEVICE, 2015–2023 (USD MILLION)

Table 32 DISPLAY DRIVER MARKET IN JAPAN, BY DISPLAY TECHNOLOGY, 2015–2023 (USD MILLION)

Table 33 DISPLAY DRIVER MARKET IN JAPAN, BY DISPLAY SIZE, 2015–2023 (USD MILLION)

Table 34 DISPLAY DRIVER MARKET IN JAPAN, BY DEVICE, 2015–2023 (USD MILLION)

Table 35 DISPLAY DRIVER MARKET IN ROW, BY DISPLAY TECHNOLOGY, 2015–2023 (USD MILLION)

Table 36 DISPLAY DRIVER MARKET IN ROW, BY DISPLAY SIZE, 2015–2023 (USD MILLION)

## List Of Figures

### LIST OF FIGURES

Figure 1 DISPLAY DRIVER MARKET: RESEARCH DESIGN

Figure 2 RESEARCH FLOW OF MARKET SIZE ESTIMATION

Figure 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

Figure 5 DATA TRIANGULATION

Figure 6 GLOBAL DISPLAY DRIVER MARKET, 2015–2023 (USD MILLION)

Figure 7 TDDI TO DEFINE THE GROWTH OF DISPLAY DRIVER MARKET DURING FORECAST PERIOD

Figure 8 COF-BASED DISPLAY DRIVERS TO BE THE NEW TREND IN DISPLAY DRIVER MARKET DURING THE FORECAST PERIOD

Figure 9 DISPLAY DRIVER MARKET TO GROW AT HIGHEST CAGR IN OLED SEGMENT

Figure 10 SMALL DEVICES TO DOMINATE DISPLAY DRIVER MARKET IN TERMS OF SIZE DURING FORECAST PERIOD

Figure 11 DISPLAY DRIVER MARKET TO WITNESS RAPID GROWTH FROM CHINA DURING FORECAST PERIOD

Figure 12 OLED TO DEFINE DISPLAY DRIVER MARKET DURING THE NEXT 5 YEARS

Figure 13 GLOBAL DISPLAY PANEL MARKET OUTLOOK

Figure 14 TDDI-TYPE DISPLAY DRIVERS TO RAPIDLY GAIN SHARE IN MARKET

Figure 15 COF-TYPE PACKAGES TO RAPIDLY GAIN SHARE IN MARKET

Figure 16 OLED DISPLAYS TO DRIVE THE MARKET TOWARD HIGH GROWTH DURING FORECAST PERIOD

Figure 17 SMART WEARABLES, TELEVISION, AUTOMOTIVE, AND SMARTPHONE SEGMENTS TO CREATE HIGH-GROWTH OPPORTUNITIES DURING FORECAST PERIOD

Figure 18 SMARTPHONE SEGMENT TO HOLD A LARGER SHARE IN DISPLAY DRIVER MARKET IN 2018

Figure 19 SOUTH KOREA IN COUNTRY AND SMALL DEVICES IN DEVICE SIZE TO DOMINATE GLOBAL DISPLAY DRIVER MARKET DURING FORECAST PERIOD

Figure 20 DEMAND FOR DISPLAY DRIVERS TO RAPIDLY GROW IN CHINA IN THE NEXT 5 YEARS

Figure 21 SMARTPHONE AND TELEVISION SEGMENTS TO DOMINATE THE MARKET IN CHINA BETWEEN 2018 AND 2023

Figure 22 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES FOR THE

## DISPLAY DRIVER MARKET

Figure 23 OLED DISPLAY PANEL SHIPMENTS, 2014–2023 (MILLION UNITS)

Figure 24 SHIPMENTS FOR 4K TV ARE FORECASTED TO GROW RAPIDLY WORLDWIDE BY 2020

Figure 25 DEMAND FOR 8K TV IS EXPECTED TO SURGE 2018 ONWARDS

Figure 26 AUTOMOTIVE DISPLAY SHIPMENTS, 2015–2023 (MILLION UNITS)

Figure 27 AUTOMOTIVE DISPLAY MARKET SHARE, BY DISPLAY TYPE, 2017 VS. 2022

Figure 28 DISPLAY DEVICES WITH SATURATED GROWTH AND DECLINING SHIPMENT VOLUMES

Figure 29 WEARABLE DISPLAY SHIPMENTS, BY PRODUCT TYPE, 2015–2023 (MILLION UNITS)

Figure 30 MICRO-LED DISPLAY PANEL MARKET, 2017-2025 (USD BILLION)

Figure 31 MICRO-LED MARKET: REVENUE IMPACT ON KEY PLAYERS IN SUPPLY CHAIN

Figure 32 DISPLAY DRIVER MARKET: VALUE CHAIN ANALYSIS

Figure 33 SMARTPHONE IS EXPECTED TO BE THE LARGEST SEGMENT FOR OLED DISPLAY PANELS DURING THE FORECAST PERIOD

Figure 34 HIGHLY GROWING QUANTUM DOT DISPLAY PANEL MARKET

Figure 35 SMARTPHONE TO BE LARGEST SEGMENT IN MICRO-LED DISPLAY MARKET BY 2025

Figure 36 DISPLAY DRIVER MARKET, BY DISPLAY SIZE & DEVICES

Figure 37 SMALL DEVICES TO DOMINATE DISPLAY DRIVER MARKET IN TERMS OF SIZE DURING FORECAST PERIOD

Figure 38 SOUTH KOREA TO DOMINATE DISPLAY DRIVER MARKET FOR SMARTPHONE, IN TERMS OF SIZE, DURING FORECAST PERIOD

Figure 39 DISPLAY DRIVER MARKET FOR AUTOMOTIVE DISPLAY TO GROW AT HIGHEST CAGR IN CHINA DURING FORECAST PERIOD

Figure 40 DISPLAY DRIVER MARKET FOR TELEVISION TO GROW AT THE HIGHEST CAGR IN CHINA DURING THE FORECAST PERIOD

Figure 41 DISPLAY DRIVER MARKET, BY DISPLAY TECHNOLOGY

Figure 42 DISPLAY DRIVER MARKET TO GROW AT HIGHEST CAGR IN OLED SEGMENT DURING FORECAST PERIOD

Figure 43 DISPLAY DRIVER MARKET FOR LCD DISPLAYS, MARKET SHARE BY COUNTRY, 2018 VS. 2023

Figure 44 DISPLAY DRIVER MARKET FOR OLED DISPLAYS, MARKET SHARE BY COUNTRY, 2018 VS. 2023

Figure 45 DISPLAY DRIVER MARKET, BY DRIVER TYPE

Figure 46 MARKET FOR TDDI-TYPE DISPLAY DRIVERS TO GROW AT A HIGHER

## CAGR DURING FORECAST PERIOD

Figure 47 DISPLAY DRIVER MARKET, BY PACKAGE TYPE

Figure 48 COF PACKAGE-BASED DISPLAY DRIVERS TO WITNESS RAPID GROWTH IN THE MARKET DURING FORECAST PERIOD

Figure 49 DISPLAY DRIVER MARKET, BY COUNTRY

Figure 50 GEOGRAPHIC SNAPSHOT OF GLOBAL DISPLAY DRIVER MARKET

Figure 51 SOUTH KOREA TO ACCOUNT FOR A MAJOR SHARE OF DISPLAY DRIVER MARKET DURING FORECAST PERIOD

Figure 52 OLED TO DEFINE GROWTH OF DISPLAY DRIVER MARKET IN SOUTH KOREA

Figure 53 OLED DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN SOUTH KOREA DURING FORECAST PERIOD

Figure 54 SMARTPHONES TO ACCOUNT FOR HIGHEST DEMAND IN DISPLAY DRIVER MARKET IN SOUTH KOREA DURING FORECAST PERIOD

Figure 55 DISPLAY DRIVER MARKET IN CHINA TO GROW FOR BOTH LCD AND OLED DISPLAYS

Figure 56 LCD DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN CHINA DURING FORECAST PERIOD

Figure 57 DEMAND FOR SMARTPHONE DISPLAY DRIVERS TO DOUBLE IN CHINA DURING FORECAST PERIOD

Figure 58 MAJORITY OF DEMAND FOR DISPLAY DRIVERS TO EMERGE FOR LCD DISPLAYS IN TAIWAN

Figure 59 LCD DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN TAIWAN DURING FORECAST PERIOD

Figure 60 SMARTPHONE, TELEVISION, AND MONITOR & NOTEBOOK TO LEAD MARKET IN TERMS OF DEMAND DURING FORECAST PERIOD IN TAIWAN

Figure 61 DISPLAY DRIVER MARKET IN JAPAN TO GROW FOR OLED DISPLAYS

Figure 62 LCD DISPLAYS TO ACCOUNT FOR MAJOR SHARE IN DISPLAY DRIVER MARKET IN JAPAN DURING FORECAST PERIOD

Figure 63 SMARTPHONE, TELEVISION, AND AUTOMOTIVE TO LEAD MARKET IN TERMS OF DEMAND DURING FORECAST PERIOD IN JAPAN

Figure 64 PRODUCT LAUNCHES AND DEVELOPMENTS EMERGED AS THE KEY GROWTH STRATEGY ADOPTED BY THE COMPANIES BETWEEN 2014 AND 2018

Figure 65 PLAYER MARKET SHARE: DISPLAY DRIVER MARKET, 2017

Figure 66 SAMSUNG ELECTRONICS: COMPANY SNAPSHOT

Figure 67 NOVATEK MICROELECTRONICS: COMPANY SNAPSHOT

Figure 68 SYNAPTICS: COMPANY SNAPSHOT

Figure 69 HIMAX TECHNOLOGIES: COMPANY SNAPSHOT

Figure 70 SILICON WORKS: COMPANY SNAPSHOT



Figure 71 SITRONIX TECHNOLOGY: COMPANY SNAPSHOT

Figure 72 RAYDIUM SEMICONDUCTOR: COMPANY SNAPSHOT

Figure 73 MAGNACHIP SEMICONDUCTOR: COMPANY SNAPSHOT

Figure 74 FOCALTECH: COMPANY SNAPSHOT

Figure 75 MEDIATEK: COMPANY SNAPSHOT

Figure 76 FITIPOWER INTEGRATED TECHNOLOGY: COMPANY SNAPSHOT

Figure 77 ROHM SEMICONDUCTOR: COMPANY SNAPSHOT

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