

# Global Dual-gate Thin-film Transistors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Dual-gate Thin-film Transistors market size is expected to reach \$ 2283 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

In 2025, global Dual-gate Thin-film Transistor output reached about 1.8 billion units, with capacity of 2.6 billion units per year, average unit price around USD 0.65, and gross margins about 27%. Dual-gate Thin-Film Transistors (DG-TFTs) are advanced thin-film semiconductor devices that incorporate two independent gate electrodes (top gate and bottom gate) to control the channel conductivity of the transistor. Compared with conventional single-gate TFTs, dual-gate structures provide improved electrostatic control, lower leakage current, higher carrier mobility, and better threshold-voltage stability, making them particularly suitable for high-resolution displays, flexible electronics, and advanced sensing devices. In the supply chain, upstream industries include semiconductor materials and equipment such as substrates (glass, flexible polymer, or silicon), gate metals (Mo, Al, Ti), dielectric materials (SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, HfO<sub>2</sub>), and semiconductor layers (a-Si, LTPS, IGZO, or oxide semiconductors) along with deposition and lithography equipment suppliers. The midstream segment involves TFT fabrication through processes such as thin-film deposition (CVD, sputtering), photolithography, etching, and passivation, typically carried out by display panel manufacturers and semiconductor foundries. The downstream market integrates DG-TFT backplanes into products such as OLED displays, AMOLED smartphones, tablets, TVs, micro-LED displays, image sensors, flexible electronics, and advanced sensors, ultimately serving sectors including consumer electronics, automotive displays, industrial instrumentation, and emerging wearable devices.

This report studies the global Dual-gate Thin-film Transistors production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dual-gate Thin-film Transistors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Dual-gate Thin-film Transistors that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Dual-gate Thin-film Transistors total production and demand, 2021-2032, (K Units)

Global Dual-gate Thin-film Transistors total production value, 2021-2032, (USD Million)

Global Dual-gate Thin-film Transistors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Dual-gate Thin-film Transistors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Dual-gate Thin-film Transistors domestic production, consumption, key domestic manufacturers and share

Global Dual-gate Thin-film Transistors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Dual-gate Thin-film Transistors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Dual-gate Thin-film Transistors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Dual-gate Thin-film Transistors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung Display, LG Display, BOE Technology, AU Optronics, Innolux, Sharp, Japan Display, Tianma Microelectronics, Visionox Technology, TCL Technology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Dual-gate Thin-film Transistors market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### **Global Dual-gate Thin-film Transistors Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Dual-gate Thin-film Transistors Market, Segmentation by Type:**

Coplanar Dual-gate TFTs

Staggered Dual-gate TFTs

Vertical Dual-gate TFTs

Self-aligned Dual-gate TFTs

Global Dual-gate Thin-film Transistors Market, Segmentation by Gate Structure:

Symmetric Dual-gate TFTs

Asymmetric Dual-gate TFTs

Global Dual-gate Thin-film Transistors Market, Segmentation by Application:

Display Screens

Wearable Electronics

Automotive Electronics

Industrial Sensors

Others

Companies Profiled:

Samsung Display

LG Display

BOE Technology

AU Optronics

Innolux

Sharp

Japan Display

Tianma Microelectronics

Visionox Technology

TCL Technology

Shanghai EverDisplay

HKC Corporation

Truly International

HannStar Display

Giantplus Technology

Chongqing Konka Display

**Key Questions Answered:**

1. How big is the global Dual-gate Thin-film Transistors market?
2. What is the demand of the global Dual-gate Thin-film Transistors market?
3. What is the year over year growth of the global Dual-gate Thin-film Transistors market?
4. What is the production and production value of the global Dual-gate Thin-film Transistors market?
5. Who are the key producers in the global Dual-gate Thin-film Transistors market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Dual-gate Thin-film Transistors Introduction
- 1.2 World Dual-gate Thin-film Transistors Supply & Forecast
  - 1.2.1 World Dual-gate Thin-film Transistors Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.2.3 World Dual-gate Thin-film Transistors Pricing Trends (2021-2032)
- 1.3 World Dual-gate Thin-film Transistors Production by Region (Based on Production Site)
  - 1.3.1 World Dual-gate Thin-film Transistors Production Value by Region (2021-2032)
  - 1.3.2 World Dual-gate Thin-film Transistors Production by Region (2021-2032)
  - 1.3.3 World Dual-gate Thin-film Transistors Average Price by Region (2021-2032)
  - 1.3.4 North America Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.3.5 Europe Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.3.6 China Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.3.7 Japan Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.3.8 South Korea Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.3.9 Southeast Asia Dual-gate Thin-film Transistors Production (2021-2032)
  - 1.3.10 China Taiwan Dual-gate Thin-film Transistors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Dual-gate Thin-film Transistors Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Dual-gate Thin-film Transistors Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Dual-gate Thin-film Transistors Demand (2021-2032)
- 2.2 World Dual-gate Thin-film Transistors Consumption by Region
  - 2.2.1 World Dual-gate Thin-film Transistors Consumption by Region (2021-2026)
  - 2.2.2 World Dual-gate Thin-film Transistors Consumption Forecast by Region (2027-2032)
- 2.3 United States Dual-gate Thin-film Transistors Consumption (2021-2032)
- 2.4 China Dual-gate Thin-film Transistors Consumption (2021-2032)
- 2.5 Europe Dual-gate Thin-film Transistors Consumption (2021-2032)
- 2.6 Japan Dual-gate Thin-film Transistors Consumption (2021-2032)
- 2.7 South Korea Dual-gate Thin-film Transistors Consumption (2021-2032)
- 2.8 ASEAN Dual-gate Thin-film Transistors Consumption (2021-2032)

## 2.9 India Dual-gate Thin-film Transistors Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

#### 3.1 World Dual-gate Thin-film Transistors Production Value by Manufacturer (2021-2026)

#### 3.2 World Dual-gate Thin-film Transistors Production by Manufacturer (2021-2026)

#### 3.3 World Dual-gate Thin-film Transistors Average Price by Manufacturer (2021-2026)

#### 3.4 Dual-gate Thin-film Transistors Company Evaluation Quadrant

#### 3.5 Industry Rank and Concentration Rate (CR)

##### 3.5.1 Global Dual-gate Thin-film Transistors Industry Rank of Major Manufacturers

##### 3.5.2 Global Concentration Ratios (CR4) for Dual-gate Thin-film Transistors in 2025

##### 3.5.3 Global Concentration Ratios (CR8) for Dual-gate Thin-film Transistors in 2025

#### 3.6 Dual-gate Thin-film Transistors Market: Overall Company Footprint Analysis

##### 3.6.1 Dual-gate Thin-film Transistors Market: Region Footprint

##### 3.6.2 Dual-gate Thin-film Transistors Market: Company Product Type Footprint

##### 3.6.3 Dual-gate Thin-film Transistors Market: Company Product Application Footprint

#### 3.7 Competitive Environment

##### 3.7.1 Historical Structure of the Industry

##### 3.7.2 Barriers of Market Entry

##### 3.7.3 Factors of Competition

#### 3.8 New Entrant and Capacity Expansion Plans

#### 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

#### 4.1 United States VS China: Dual-gate Thin-film Transistors Production Value Comparison

##### 4.1.1 United States VS China: Dual-gate Thin-film Transistors Production Value Comparison (2021 & 2025 & 2032)

##### 4.1.2 United States VS China: Dual-gate Thin-film Transistors Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: Dual-gate Thin-film Transistors Production Comparison

##### 4.2.1 United States VS China: Dual-gate Thin-film Transistors Production Comparison (2021 & 2025 & 2032)

##### 4.2.2 United States VS China: Dual-gate Thin-film Transistors Production Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States VS China: Dual-gate Thin-film Transistors Consumption Comparison

##### 4.3.1 United States VS China: Dual-gate Thin-film Transistors Consumption

## Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Dual-gate Thin-film Transistors Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Dual-gate Thin-film Transistors Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Dual-gate Thin-film Transistors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Dual-gate Thin-film Transistors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Dual-gate Thin-film Transistors Production (2021-2026)

4.5 China Based Dual-gate Thin-film Transistors Manufacturers and Market Share

4.5.1 China Based Dual-gate Thin-film Transistors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Dual-gate Thin-film Transistors Production Value (2021-2026)

4.5.3 China Based Manufacturers Dual-gate Thin-film Transistors Production (2021-2026)

4.6 Rest of World Based Dual-gate Thin-film Transistors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Dual-gate Thin-film Transistors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Dual-gate Thin-film Transistors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Coplanar Dual-gate TFTs

5.2.2 Staggered Dual-gate TFTs

5.2.3 Vertical Dual-gate TFTs

5.2.4 Self-aligned Dual-gate TFTs

5.3 Market Segment by Type

5.3.1 World Dual-gate Thin-film Transistors Production by Type (2021-2032)

5.3.2 World Dual-gate Thin-film Transistors Production Value by Type (2021-2032)

### 5.3.3 World Dual-gate Thin-film Transistors Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY GATE STRUCTURE**

### 6.1 World Dual-gate Thin-film Transistors Market Size Overview by Gate Structure: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Gate Structure

##### 6.2.1 Symmetric Dual-gate TFTs

##### 6.2.2 Asymmetric Dual-gate TFTs

#### 6.3 Market Segment by Gate Structure

##### 6.3.1 World Dual-gate Thin-film Transistors Production by Gate Structure (2021-2032)

##### 6.3.2 World Dual-gate Thin-film Transistors Production Value by Gate Structure (2021-2032)

##### 6.3.3 World Dual-gate Thin-film Transistors Average Price by Gate Structure (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

### 7.1 World Dual-gate Thin-film Transistors Market Size Overview by Application: 2021 VS 2025 VS 2032

#### 7.2 Segment Introduction by Application

##### 7.2.1 Display Screens

##### 7.2.2 Wearable Electronics

##### 7.2.3 Automotive Electronics

##### 7.2.4 Industrial Sensors

##### 7.2.5 Others

#### 7.3 Market Segment by Application

##### 7.3.1 World Dual-gate Thin-film Transistors Production by Application (2021-2032)

##### 7.3.2 World Dual-gate Thin-film Transistors Production Value by Application (2021-2032)

##### 7.3.3 World Dual-gate Thin-film Transistors Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

### 8.1 Samsung Display

#### 8.1.1 Samsung Display Details

#### 8.1.2 Samsung Display Major Business

#### 8.1.3 Samsung Display Dual-gate Thin-film Transistors Product and Services

#### 8.1.4 Samsung Display Dual-gate Thin-film Transistors Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

8.1.5 Samsung Display Recent Developments/Updates

8.1.6 Samsung Display Competitive Strengths & Weaknesses

## 8.2 LG Display

8.2.1 LG Display Details

8.2.2 LG Display Major Business

8.2.3 LG Display Dual-gate Thin-film Transistors Product and Services

8.2.4 LG Display Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 LG Display Recent Developments/Updates

8.2.6 LG Display Competitive Strengths & Weaknesses

## 8.3 BOE Technology

8.3.1 BOE Technology Details

8.3.2 BOE Technology Major Business

8.3.3 BOE Technology Dual-gate Thin-film Transistors Product and Services

8.3.4 BOE Technology Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 BOE Technology Recent Developments/Updates

8.3.6 BOE Technology Competitive Strengths & Weaknesses

## 8.4 AU Optronics

8.4.1 AU Optronics Details

8.4.2 AU Optronics Major Business

8.4.3 AU Optronics Dual-gate Thin-film Transistors Product and Services

8.4.4 AU Optronics Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 AU Optronics Recent Developments/Updates

8.4.6 AU Optronics Competitive Strengths & Weaknesses

## 8.5 Innolux

8.5.1 Innolux Details

8.5.2 Innolux Major Business

8.5.3 Innolux Dual-gate Thin-film Transistors Product and Services

8.5.4 Innolux Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Innolux Recent Developments/Updates

8.5.6 Innolux Competitive Strengths & Weaknesses

## 8.6 Sharp

8.6.1 Sharp Details

8.6.2 Sharp Major Business

8.6.3 Sharp Dual-gate Thin-film Transistors Product and Services

8.6.4 Sharp Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Sharp Recent Developments/Updates

8.6.6 Sharp Competitive Strengths & Weaknesses

8.7 Japan Display

8.7.1 Japan Display Details

8.7.2 Japan Display Major Business

8.7.3 Japan Display Dual-gate Thin-film Transistors Product and Services

8.7.4 Japan Display Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Japan Display Recent Developments/Updates

8.7.6 Japan Display Competitive Strengths & Weaknesses

8.8 Tianma Microelectronics

8.8.1 Tianma Microelectronics Details

8.8.2 Tianma Microelectronics Major Business

8.8.3 Tianma Microelectronics Dual-gate Thin-film Transistors Product and Services

8.8.4 Tianma Microelectronics Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Tianma Microelectronics Recent Developments/Updates

8.8.6 Tianma Microelectronics Competitive Strengths & Weaknesses

8.9 Visionox Technology

8.9.1 Visionox Technology Details

8.9.2 Visionox Technology Major Business

8.9.3 Visionox Technology Dual-gate Thin-film Transistors Product and Services

8.9.4 Visionox Technology Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Visionox Technology Recent Developments/Updates

8.9.6 Visionox Technology Competitive Strengths & Weaknesses

8.10 TCL Technology

8.10.1 TCL Technology Details

8.10.2 TCL Technology Major Business

8.10.3 TCL Technology Dual-gate Thin-film Transistors Product and Services

8.10.4 TCL Technology Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 TCL Technology Recent Developments/Updates

8.10.6 TCL Technology Competitive Strengths & Weaknesses

8.11 Shanghai EverDisplay

8.11.1 Shanghai EverDisplay Details

8.11.2 Shanghai EverDisplay Major Business

- 8.11.3 Shanghai EverDisplay Dual-gate Thin-film Transistors Product and Services
- 8.11.4 Shanghai EverDisplay Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.11.5 Shanghai EverDisplay Recent Developments/Updates
- 8.11.6 Shanghai EverDisplay Competitive Strengths & Weaknesses
- 8.12 HKC Corporation
  - 8.12.1 HKC Corporation Details
  - 8.12.2 HKC Corporation Major Business
  - 8.12.3 HKC Corporation Dual-gate Thin-film Transistors Product and Services
  - 8.12.4 HKC Corporation Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.12.5 HKC Corporation Recent Developments/Updates
  - 8.12.6 HKC Corporation Competitive Strengths & Weaknesses
- 8.13 Truly International
  - 8.13.1 Truly International Details
  - 8.13.2 Truly International Major Business
  - 8.13.3 Truly International Dual-gate Thin-film Transistors Product and Services
  - 8.13.4 Truly International Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.13.5 Truly International Recent Developments/Updates
  - 8.13.6 Truly International Competitive Strengths & Weaknesses
- 8.14 HannStar Display
  - 8.14.1 HannStar Display Details
  - 8.14.2 HannStar Display Major Business
  - 8.14.3 HannStar Display Dual-gate Thin-film Transistors Product and Services
  - 8.14.4 HannStar Display Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.14.5 HannStar Display Recent Developments/Updates
  - 8.14.6 HannStar Display Competitive Strengths & Weaknesses
- 8.15 Giantplus Technology
  - 8.15.1 Giantplus Technology Details
  - 8.15.2 Giantplus Technology Major Business
  - 8.15.3 Giantplus Technology Dual-gate Thin-film Transistors Product and Services
  - 8.15.4 Giantplus Technology Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.15.5 Giantplus Technology Recent Developments/Updates
  - 8.15.6 Giantplus Technology Competitive Strengths & Weaknesses
- 8.16 Chongqing Konka Display
  - 8.16.1 Chongqing Konka Display Details

- 8.16.2 Chongqing Konka Display Major Business
- 8.16.3 Chongqing Konka Display Dual-gate Thin-film Transistors Product and Services
- 8.16.4 Chongqing Konka Display Dual-gate Thin-film Transistors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.16.5 Chongqing Konka Display Recent Developments/Updates
- 8.16.6 Chongqing Konka Display Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 Dual-gate Thin-film Transistors Industry Chain
- 9.2 Dual-gate Thin-film Transistors Upstream Analysis
  - 9.2.1 Dual-gate Thin-film Transistors Core Raw Materials
  - 9.2.2 Main Manufacturers of Dual-gate Thin-film Transistors Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Dual-gate Thin-film Transistors Production Mode
- 9.6 Dual-gate Thin-film Transistors Procurement Model
- 9.7 Dual-gate Thin-film Transistors Industry Sales Model and Sales Channels
  - 9.7.1 Dual-gate Thin-film Transistors Sales Model
  - 9.7.2 Dual-gate Thin-film Transistors Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Dual-gate Thin-film Transistors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Dual-gate Thin-film Transistors Production Value by Region (2021-2026) & (USD Million)

Table 3. World Dual-gate Thin-film Transistors Production Value by Region (2027-2032) & (USD Million)

Table 4. World Dual-gate Thin-film Transistors Production Value Market Share by Region (2021-2026)

Table 5. World Dual-gate Thin-film Transistors Production Value Market Share by Region (2027-2032)

Table 6. World Dual-gate Thin-film Transistors Production by Region (2021-2026) & (K Units)

Table 7. World Dual-gate Thin-film Transistors Production by Region (2027-2032) & (K Units)

Table 8. World Dual-gate Thin-film Transistors Production Market Share by Region (2021-2026)

Table 9. World Dual-gate Thin-film Transistors Production Market Share by Region (2027-2032)

Table 10. World Dual-gate Thin-film Transistors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Dual-gate Thin-film Transistors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Dual-gate Thin-film Transistors Major Market Trends

Table 13. World Dual-gate Thin-film Transistors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Dual-gate Thin-film Transistors Consumption by Region (2021-2026) & (K Units)

Table 15. World Dual-gate Thin-film Transistors Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Dual-gate Thin-film Transistors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Dual-gate Thin-film Transistors Producers in 2025

Table 18. World Dual-gate Thin-film Transistors Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Dual-gate Thin-film Transistors Producers in 2025

Table 20. World Dual-gate Thin-film Transistors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Dual-gate Thin-film Transistors Company Evaluation Quadrant

Table 22. World Dual-gate Thin-film Transistors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Dual-gate Thin-film Transistors Production Site of Key Manufacturer

Table 24. Dual-gate Thin-film Transistors Market: Company Product Type Footprint

Table 25. Dual-gate Thin-film Transistors Market: Company Product Application Footprint

Table 26. Dual-gate Thin-film Transistors Competitive Factors

Table 27. Dual-gate Thin-film Transistors New Entrant and Capacity Expansion Plans

Table 28. Dual-gate Thin-film Transistors Mergers & Acquisitions Activity

Table 29. United States VS China Dual-gate Thin-film Transistors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Dual-gate Thin-film Transistors Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Dual-gate Thin-film Transistors Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Dual-gate Thin-film Transistors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Dual-gate Thin-film Transistors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Dual-gate Thin-film Transistors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Dual-gate Thin-film Transistors Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Dual-gate Thin-film Transistors Production Market Share (2021-2026)

Table 37. China Based Dual-gate Thin-film Transistors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Dual-gate Thin-film Transistors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Dual-gate Thin-film Transistors Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Dual-gate Thin-film Transistors Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Dual-gate Thin-film Transistors Production Market Share (2021-2026)

Table 42. Rest of World Based Dual-gate Thin-film Transistors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production Market Share (2021-2026)

Table 47. World Dual-gate Thin-film Transistors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Dual-gate Thin-film Transistors Production by Type (2021-2026) & (K Units)

Table 49. World Dual-gate Thin-film Transistors Production by Type (2027-2032) & (K Units)

Table 50. World Dual-gate Thin-film Transistors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Dual-gate Thin-film Transistors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Dual-gate Thin-film Transistors Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Dual-gate Thin-film Transistors Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Dual-gate Thin-film Transistors Production Value by Gate Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Dual-gate Thin-film Transistors Production by Gate Structure (2021-2026) & (K Units)

Table 56. World Dual-gate Thin-film Transistors Production by Gate Structure (2027-2032) & (K Units)

Table 57. World Dual-gate Thin-film Transistors Production Value by Gate Structure (2021-2026) & (USD Million)

Table 58. World Dual-gate Thin-film Transistors Production Value by Gate Structure (2027-2032) & (USD Million)

Table 59. World Dual-gate Thin-film Transistors Average Price by Gate Structure (2021-2026) & (US\$/Unit)

Table 60. World Dual-gate Thin-film Transistors Average Price by Gate Structure

(2027-2032) & (US\$/Unit)

Table 61. World Dual-gate Thin-film Transistors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Dual-gate Thin-film Transistors Production by Application (2021-2026) & (K Units)

Table 63. World Dual-gate Thin-film Transistors Production by Application (2027-2032) & (K Units)

Table 64. World Dual-gate Thin-film Transistors Production Value by Application (2021-2026) & (USD Million)

Table 65. World Dual-gate Thin-film Transistors Production Value by Application (2027-2032) & (USD Million)

Table 66. World Dual-gate Thin-film Transistors Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Dual-gate Thin-film Transistors Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Samsung Display Basic Information, Manufacturing Base and Competitors

Table 69. Samsung Display Major Business

Table 70. Samsung Display Dual-gate Thin-film Transistors Product and Services

Table 71. Samsung Display Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Samsung Display Recent Developments/Updates

Table 73. Samsung Display Competitive Strengths & Weaknesses

Table 74. LG Display Basic Information, Manufacturing Base and Competitors

Table 75. LG Display Major Business

Table 76. LG Display Dual-gate Thin-film Transistors Product and Services

Table 77. LG Display Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. LG Display Recent Developments/Updates

Table 79. LG Display Competitive Strengths & Weaknesses

Table 80. BOE Technology Basic Information, Manufacturing Base and Competitors

Table 81. BOE Technology Major Business

Table 82. BOE Technology Dual-gate Thin-film Transistors Product and Services

Table 83. BOE Technology Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. BOE Technology Recent Developments/Updates

Table 85. BOE Technology Competitive Strengths & Weaknesses

- Table 86. AU Optronics Basic Information, Manufacturing Base and Competitors
- Table 87. AU Optronics Major Business
- Table 88. AU Optronics Dual-gate Thin-film Transistors Product and Services
- Table 89. AU Optronics Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. AU Optronics Recent Developments/Updates
- Table 91. AU Optronics Competitive Strengths & Weaknesses
- Table 92. Innolux Basic Information, Manufacturing Base and Competitors
- Table 93. Innolux Major Business
- Table 94. Innolux Dual-gate Thin-film Transistors Product and Services
- Table 95. Innolux Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Innolux Recent Developments/Updates
- Table 97. Innolux Competitive Strengths & Weaknesses
- Table 98. Sharp Basic Information, Manufacturing Base and Competitors
- Table 99. Sharp Major Business
- Table 100. Sharp Dual-gate Thin-film Transistors Product and Services
- Table 101. Sharp Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Sharp Recent Developments/Updates
- Table 103. Sharp Competitive Strengths & Weaknesses
- Table 104. Japan Display Basic Information, Manufacturing Base and Competitors
- Table 105. Japan Display Major Business
- Table 106. Japan Display Dual-gate Thin-film Transistors Product and Services
- Table 107. Japan Display Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Japan Display Recent Developments/Updates
- Table 109. Japan Display Competitive Strengths & Weaknesses
- Table 110. Tianma Microelectronics Basic Information, Manufacturing Base and Competitors
- Table 111. Tianma Microelectronics Major Business
- Table 112. Tianma Microelectronics Dual-gate Thin-film Transistors Product and Services
- Table 113. Tianma Microelectronics Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Tianma Microelectronics Recent Developments/Updates

- Table 115. Tianma Microelectronics Competitive Strengths & Weaknesses
- Table 116. Visionox Technology Basic Information, Manufacturing Base and Competitors
- Table 117. Visionox Technology Major Business
- Table 118. Visionox Technology Dual-gate Thin-film Transistors Product and Services
- Table 119. Visionox Technology Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. Visionox Technology Recent Developments/Updates
- Table 121. Visionox Technology Competitive Strengths & Weaknesses
- Table 122. TCL Technology Basic Information, Manufacturing Base and Competitors
- Table 123. TCL Technology Major Business
- Table 124. TCL Technology Dual-gate Thin-film Transistors Product and Services
- Table 125. TCL Technology Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. TCL Technology Recent Developments/Updates
- Table 127. TCL Technology Competitive Strengths & Weaknesses
- Table 128. Shanghai EverDisplay Basic Information, Manufacturing Base and Competitors
- Table 129. Shanghai EverDisplay Major Business
- Table 130. Shanghai EverDisplay Dual-gate Thin-film Transistors Product and Services
- Table 131. Shanghai EverDisplay Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 132. Shanghai EverDisplay Recent Developments/Updates
- Table 133. Shanghai EverDisplay Competitive Strengths & Weaknesses
- Table 134. HKC Corporation Basic Information, Manufacturing Base and Competitors
- Table 135. HKC Corporation Major Business
- Table 136. HKC Corporation Dual-gate Thin-film Transistors Product and Services
- Table 137. HKC Corporation Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 138. HKC Corporation Recent Developments/Updates
- Table 139. HKC Corporation Competitive Strengths & Weaknesses
- Table 140. Truly International Basic Information, Manufacturing Base and Competitors
- Table 141. Truly International Major Business
- Table 142. Truly International Dual-gate Thin-film Transistors Product and Services
- Table 143. Truly International Dual-gate Thin-film Transistors Production (K Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. Truly International Recent Developments/Updates

Table 145. Truly International Competitive Strengths & Weaknesses

Table 146. HannStar Display Basic Information, Manufacturing Base and Competitors

Table 147. HannStar Display Major Business

Table 148. HannStar Display Dual-gate Thin-film Transistors Product and Services

Table 149. HannStar Display Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. HannStar Display Recent Developments/Updates

Table 151. HannStar Display Competitive Strengths & Weaknesses

Table 152. Giantplus Technology Basic Information, Manufacturing Base and Competitors

Table 153. Giantplus Technology Major Business

Table 154. Giantplus Technology Dual-gate Thin-film Transistors Product and Services

Table 155. Giantplus Technology Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Giantplus Technology Recent Developments/Updates

Table 157. Giantplus Technology Competitive Strengths & Weaknesses

Table 158. Chongqing Konka Display Basic Information, Manufacturing Base and Competitors

Table 159. Chongqing Konka Display Major Business

Table 160. Chongqing Konka Display Dual-gate Thin-film Transistors Product and Services

Table 161. Chongqing Konka Display Dual-gate Thin-film Transistors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Chongqing Konka Display Recent Developments/Updates

Table 163. Chongqing Konka Display Competitive Strengths & Weaknesses

Table 164. Global Key Players of Dual-gate Thin-film Transistors Upstream (Raw Materials)

Table 165. Global Dual-gate Thin-film Transistors Typical Customers

Table 166. Dual-gate Thin-film Transistors Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Dual-gate Thin-film Transistors Picture

Figure 2. World Dual-gate Thin-film Transistors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Dual-gate Thin-film Transistors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 5. World Dual-gate Thin-film Transistors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Dual-gate Thin-film Transistors Production Value Market Share by Region (2021-2032)

Figure 7. World Dual-gate Thin-film Transistors Production Market Share by Region (2021-2032)

Figure 8. North America Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 9. Europe Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 10. China Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 11. Japan Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 12. South Korea Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 14. China Taiwan Dual-gate Thin-film Transistors Production (2021-2032) & (K Units)

Figure 15. Dual-gate Thin-film Transistors Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 18. World Dual-gate Thin-film Transistors Consumption Market Share by Region (2021-2032)

Figure 19. United States Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 20. China Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 21. Europe Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 22. Japan Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 23. South Korea Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Dual-gate Thin-film Transistors Consumption (2021-2032) & (K

Units)

Figure 25. India Dual-gate Thin-film Transistors Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Dual-gate Thin-film Transistors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Dual-gate Thin-film Transistors Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Dual-gate Thin-film Transistors Markets in 2025

Figure 29. United States VS China: Dual-gate Thin-film Transistors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Dual-gate Thin-film Transistors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Dual-gate Thin-film Transistors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Dual-gate Thin-film Transistors Production Market Share 2025

Figure 33. China Based Manufacturers Dual-gate Thin-film Transistors Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Dual-gate Thin-film Transistors Production Market Share 2025

Figure 35. World Dual-gate Thin-film Transistors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Dual-gate Thin-film Transistors Production Value Market Share by Type in 2025

Figure 37. Coplanar Dual-gate TFTs

Figure 38. Staggered Dual-gate TFTs

Figure 39. Vertical Dual-gate TFTs

Figure 40. Self-aligned Dual-gate TFTs

Figure 41. World Dual-gate Thin-film Transistors Production Market Share by Type (2021-2032)

Figure 42. World Dual-gate Thin-film Transistors Production Value Market Share by Type (2021-2032)

Figure 43. World Dual-gate Thin-film Transistors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. World Dual-gate Thin-film Transistors Production Value by Gate Structure, (USD Million), 2021 & 2025 & 2032

Figure 45. World Dual-gate Thin-film Transistors Production Value Market Share by Gate Structure in 2025

Figure 46. Symmetric Dual-gate TFTs

Figure 47. Asymmetric Dual-gate TFTs

Figure 48. World Dual-gate Thin-film Transistors Production Market Share by Gate Structure (2021-2032)

Figure 49. World Dual-gate Thin-film Transistors Production Value Market Share by Gate Structure (2021-2032)

Figure 50. World Dual-gate Thin-film Transistors Average Price by Gate Structure (2021-2032) & (US\$/Unit)

Figure 51. World Dual-gate Thin-film Transistors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World Dual-gate Thin-film Transistors Production Value Market Share by Application in 2025

Figure 53. Display Screens

Figure 54. Wearable Electronics

Figure 55. Automotive Electronics

Figure 56. Industrial Sensors

Figure 57. Others

Figure 58. World Dual-gate Thin-film Transistors Production Market Share by Application (2021-2032)

Figure 59. World Dual-gate Thin-film Transistors Production Value Market Share by Application (2021-2032)

Figure 60. World Dual-gate Thin-film Transistors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 61. Dual-gate Thin-film Transistors Industry Chain

Figure 62. Dual-gate Thin-film Transistors Procurement Model

Figure 63. Dual-gate Thin-film Transistors Sales Model

Figure 64. Dual-gate Thin-film Transistors Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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