

Global LCD TV Core Chip Market Size Study, by Application (Television, Monitors, Projectors, Smart Displays), by Technology (LCD, LED, OLED, Quantum Dot), by Core Functionality (Video Processing, Audio Processing, Image Processing, Connectivity), by Component Type (Integrated Circuits, Microcontrollers, Field Programmable Gate Arrays) and Regional Forecasts 2022-2032

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Abstracts

The Global LCD TV Core Chip Market, valued at approximately USD 3.36 billion in 2023, is projected to experience steady expansion at a CAGR of 3.72% over the forecast period 2024-2032. The increasing adoption of high-resolution displays, advancements in smart TV technology, and rising consumer demand for enhanced visual and audio experiences are driving the demand for LCD TV core chips. With the integration of AI-powered image processing, ultra-HD streaming capabilities, and energy-efficient microchips, manufacturers are focusing on delivering seamless viewing experiences while optimizing power consumption and performance.

The market is witnessing rapid advancements in display technology, with OLED and Quantum Dot technologies gaining traction over traditional LCD panels. These developments are revolutionizing color accuracy, brightness, and refresh rates, necessitating highly efficient video and image processing chips. Additionally, with the growing popularity of gaming monitors, smart displays, and high-definition projectors, semiconductor companies are pushing the boundaries of connectivity solutions by incorporating 5G, Wi-Fi 6, and HDMI 2.1 support into LCD TV core chips. However, challenges such as supply chain disruptions, semiconductor shortages, and fluctuating

raw material costs continue to impact market growth.

Geographically, North America and Europe are leading the industry, supported by early technology adoption, strong R&D investments, and high consumer spending on premium electronic devices. The Asia-Pacific region, particularly China, Japan, South Korea, and India, is witnessing the fastest growth due to rapid urbanization, increasing penetration of smart TVs, and government initiatives supporting local semiconductor production. Meanwhile, Latin America and the Middle East & Africa are gradually adopting advanced display technologies, with an increasing focus on affordable, feature-rich television solutions.

With the ongoing evolution of display standards and the growing convergence of entertainment and IoT ecosystems, industry players are actively investing in next-generation chip architectures. Strategic collaborations between semiconductor manufacturers and consumer electronics giants are shaping the future of intelligent, AI-driven core chips, enabling dynamic picture enhancements, voice-assisted controls, and immersive audio experiences. These trends indicate a promising future for the LCD TV Core Chip Market, with innovations continually redefining home entertainment and professional display solutions.

Major Market Players Included in This Report:

Samsung Electronics Co., Ltd.

MediaTek Inc.

Qualcomm Technologies, Inc.

Texas Instruments Incorporated

Broadcom Inc.

Intel Corporation

NVIDIA Corporation

Realtek Semiconductor Corp.

STMicroelectronics

NXP Semiconductors N.V.

Renesas Electronics Corporation

Analog Devices, Inc.

HiSilicon (Huawei Technologies Co., Ltd.)

Ambarella, Inc.

Silicon Motion Technology Corporation

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Application:

Television

Monitors

Projectors

Smart Displays

By Technology:

LCD

LED

OLED

Quantum Dot

By Core Functionality:

Global LCD TV Core Chip Market Size Study, by Application (Television, Monitors, Projectors, Smart Displays),...

Video Processing

Audio Processing

Image Processing

Connectivity

By Component Type:

Integrated Circuits

Microcontrollers

Field Programmable Gate Arrays

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

- # Market Estimates & Forecasts for 10 years (2022-2032)
- # Annualized Revenue Insights & Regional-Level Analysis for Each Market Segment
- # Comprehensive Geographical Breakdown, Including Country-Level Analysis
- # Competitive Landscape Featuring Key Players & Industry Developments
- # Strategic Business Insights & Recommendations for Future Market Positioning
- # Assessment of Market Competition & Structural Analysis
- # Demand-Side & Supply-Side Analysis of Market Trends

Contents

CHAPTER 1. GLOBAL LCD TV CORE CHIP MARKET EXECUTIVE SUMMARY

- 1.1. Global LCD TV Core Chip Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. {By Application}
 - 1.3.2. {By Technology}
 - 1.3.3. {By Core Functionality}
 - 1.3.4. {By Component Type}
- 1.4. Key Trends
- 1.5. Supply Chain Challenges
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL LCD TV CORE CHIP MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL LCD TV CORE CHIP MARKET DYNAMICS

Global LCD TV Core Chip Market Size Study, by Application (Television, Monitors, Projectors, Smart Displays),...

3.1. Market Drivers

- 3.1.1. Increasing Adoption of High-Resolution Displays
- 3.1.2. Advancements in Smart TV Technology
- 3.1.3. Rising Consumer Demand for Enhanced Visual & Audio Experiences

3.2. Market Challenges

- 3.2.1. Supply Chain Disruptions
- 3.2.2. Semiconductor Shortages
- 3.2.3. Fluctuating Raw Material Costs

3.3. Market Opportunities

- 3.3.1. Integration of AI-Powered Image Processing
- 3.3.2. Ultra-HD Streaming Capabilities
- 3.3.3. Energy-Efficient Microchip Innovations
- 3.3.4. Advanced Connectivity Solutions (5G, Wi-Fi 6, HDMI 2.1)

CHAPTER 4. GLOBAL LCD TV CORE CHIP MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunity

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL LCD TV CORE CHIP MARKET SIZE & FORECASTS BY

Global LCD TV Core Chip Market Size Study, by Application (Television, Monitors, Projectors, Smart Displays),...

APPLICATION 2022-2032

5.1. Segment Dashboard

5.2. Global LCD TV Core Chip Market: {Application} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

5.2.1. Television

5.2.2. Monitors

5.2.3. Projectors

5.2.4. Smart Displays

CHAPTER 6. GLOBAL LCD TV CORE CHIP MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

6.1. Segment Dashboard

6.2. Global LCD TV Core Chip Market: {Technology} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

6.2.1. LCD

6.2.2. LED

6.2.3. OLED

6.2.4. Quantum Dot

CHAPTER 7. GLOBAL LCD TV CORE CHIP MARKET SIZE & FORECASTS BY CORE FUNCTIONALITY 2022-2032

7.1. Segment Dashboard

7.2. Global LCD TV Core Chip Market: {Core Functionality} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

7.2.1. Video Processing

7.2.2. Audio Processing

7.2.3. Image Processing

7.2.4. Connectivity

CHAPTER 8. GLOBAL LCD TV CORE CHIP MARKET SIZE & FORECASTS BY COMPONENT TYPE 2022-2032

8.1. Segment Dashboard

8.2. Global LCD TV Core Chip Market: {Component Type} Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

8.2.1. Integrated Circuits

8.2.2. Microcontrollers

8.2.3. Field Programmable Gate Arrays

CHAPTER 9. GLOBAL LCD TV CORE CHIP MARKET SIZE & FORECASTS BY REGION 2022-2032

9.1. North America LCD TV Core Chip Market

9.1.1. U.S. LCD TV Core Chip Market

9.1.1.1. {Application} Breakdown Size & Forecasts, 2022-2032

9.1.1.2. {Technology} Breakdown Size & Forecasts, 2022-2032

9.1.1.3. {Core Functionality} Breakdown Size & Forecasts, 2022-2032

9.1.1.4. {Component Type} Breakdown Size & Forecasts, 2022-2032

9.1.2. Canada LCD TV Core Chip Market

9.2. Europe LCD TV Core Chip Market

9.2.1. U.K. LCD TV Core Chip Market

9.2.2. Germany LCD TV Core Chip Market

9.2.3. France LCD TV Core Chip Market

9.2.4. Spain LCD TV Core Chip Market

9.2.5. Italy LCD TV Core Chip Market

9.2.6. Rest of Europe LCD TV Core Chip Market

9.3. Asia Pacific LCD TV Core Chip Market

9.3.1. China LCD TV Core Chip Market

9.3.2. India LCD TV Core Chip Market

9.3.3. Japan LCD TV Core Chip Market

9.3.4. Australia LCD TV Core Chip Market

9.3.5. South Korea LCD TV Core Chip Market

9.3.6. Rest of Asia-Pacific LCD TV Core Chip Market

9.4. Latin America LCD TV Core Chip Market

9.4.1. Brazil LCD TV Core Chip Market

9.4.2. Mexico LCD TV Core Chip Market

9.4.3. Rest of Latin America LCD TV Core Chip Market

9.5. Middle East & Africa LCD TV Core Chip Market

9.5.1. Saudi Arabia LCD TV Core Chip Market

9.5.2. South Africa LCD TV Core Chip Market

9.5.3. Rest of Middle East & Africa LCD TV Core Chip Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

10.1. Key Company SWOT Analysis

- 10.1.1. Samsung Electronics Co., Ltd.
- 10.1.2. MediaTek Inc.
- 10.1.3. Qualcomm Technologies, Inc.
- 10.2. Top Market Strategies
- 10.3. Company Profiles
 - 10.3.1. Samsung Electronics Co., Ltd.
 - 10.3.1.1. Key Information
 - 10.3.1.2. Overview
 - 10.3.1.3. Financial (Subject to Data Availability)
 - 10.3.1.4. Product Summary
 - 10.3.1.5. Market Strategies
 - 10.3.2. Texas Instruments Incorporated
 - 10.3.3. Broadcom Inc.
 - 10.3.4. Intel Corporation
 - 10.3.5. NVIDIA Corporation
 - 10.3.6. Realtek Semiconductor Corp.
 - 10.3.7. STMicroelectronics
 - 10.3.8. NXP Semiconductors N.V.
 - 10.3.9. Renesas Electronics Corporation
 - 10.3.10. Analog Devices, Inc.
 - 10.3.11. HiSilicon (Huawei Technologies Co., Ltd.)
 - 10.3.12. Ambarella, Inc.
 - 10.3.13. Silicon Motion Technology Corporation

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global LCD TV Core Chip Market, Report Scope

TABLE 2. Global LCD TV Core Chip Market Estimates & Forecasts by Region
2022-2032 (USD Million/Billion)

TABLE 3. Global LCD TV Core Chip Market Estimates & Forecasts by Application
2022-2032 (USD Million/Billion)

TABLE 4. Global LCD TV Core Chip Market Estimates & Forecasts by Technology
2022-2032 (USD Million/Billion)

TABLE 5. Global LCD TV Core Chip Market Estimates & Forecasts by Core
Functionality 2022-2032 (USD Million/Billion)

TABLE 6. Global LCD TV Core Chip Market Estimates & Forecasts by Component Type
2022-2032 (USD Million/Billion)

TABLE 7. Global LCD TV Core Chip Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 8. Global LCD TV Core Chip Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 9. Global LCD TV Core Chip Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 10. Global LCD TV Core Chip Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 11. Global LCD TV Core Chip Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 12. Global LCD TV Core Chip Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 13. Global LCD TV Core Chip Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 14. Global LCD TV Core Chip Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 15. U.S. LCD TV Core Chip Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 16. U.S. LCD TV Core Chip Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 17. U.S. LCD TV Core Chip Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 18. Canada LCD TV Core Chip Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 19. Canada LCD TV Core Chip Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 20. Canada LCD TV Core Chip Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

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