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Global Display Gamma Correction IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Display Gamma Correction IC market size is expected to reach $ 425 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Display Gamma Correction ICs are analog and mixed signal integrated circuits used in the display panel driving chain, mainly for grayscale voltage calibration, gamma reference voltage output, and VCOM voltage coordination in TFT LCD and related display modules. These chips generate, buffer, store, and adjust multiple high precision reference voltages to correct the grayscale response curve of a panel, helping the display maintain stable brightness, contrast, and color consistency under different brightness levels, grayscale levels, operating temperatures, panel batches, and aging conditions. The main product forms include programmable gamma reference voltage ICs, programmable gamma buffer ICs, gamma and VCOM buffer ICs, P Gamma and DVCOM ICs, and DAC integrated gamma correction ICs. Their core technical focus includes precision analog circuit design, multi channel DAC integration, low noise operational amplification, non volatile memory or register based configuration, I2C or similar digital interface control, channel matching, panel level calibration, and wide temperature reliability design. Key specifications include channel count, output voltage range, output voltage accuracy, output current capability, VCOM adjustment range, noise level, temperature drift, response speed, package size, interface type, and reliability grade. The main downstream applications are televisions, monitors, notebook computers, automotive displays, industrial displays, medical displays, and professional display modules. In 2025, the global industry average price of Display Gamma Correction ICs was about USD 2.00 to 2.50 per unit, while product prices generally ranged from USD 1.50 to 5.00 per unit depending on channel count, accuracy, integration level, and application grade. Global shipment volume was about 120 million

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units in 2025, and the global gross margin of Display Gamma Correction ICs was about 35% to 45% in 2025.

Display Gamma Correction ICs represent a small but clearly defined analog IC segment within the display supply chain. The upstream side includes wafer foundries, analog process platforms, packaging and testing services, electronic chemicals, EDA tools, and basic semiconductor materials. The midstream consists of designers and suppliers of gamma reference voltage ICs, gamma buffer ICs, gamma and VCOM buffer ICs, and related programmable display analog chips. The downstream market is mainly concentrated in TFT LCD televisions, monitors, notebook computers, automotive displays, industrial displays, medical displays, and professional display modules. The value of this product does not come from directly processing display content, but from stabilizing the grayscale voltage curve and common electrode voltage, which improves display consistency, panel calibration efficiency, and long term module reliability. For this reason, it remains a relevant companion chip category in the mature LCD ecosystem.

The global competitive landscape is small and relatively concentrated. Core suppliers are typically companies with strong precision analog design capability, display panel qualification experience, and the ability to support long lifecycle products. This industry should not be assessed in the same way as large scale general purpose semiconductor markets. Competition is shaped more by panel compatibility, output voltage accuracy, temperature stability, automotive reliability, supply continuity, and customer design in experience. In recent years, the display supply chain has continued to concentrate in Asia, while panel production and module assembly have increasingly shifted toward regional ecosystems with stronger local sourcing requirements. This has supported the development of local display companion chips, including P Gamma, DVCOM, display power management, and large size panel analog products. Some legacy product lines have also been absorbed into larger analog IC platforms through mergers and portfolio integration, while new product activity is moving toward higher reliability, lower noise, more channels, and automotive display applications.

The policy environment mainly affects this market through semiconductor supply chain security, automotive electronics reliability, domestic display panel support, and localization of key chips. Policy support for semiconductor manufacturing, automotive electronics, display panels, and advanced manufacturing helps sustain demand in automotive, industrial, medical, and professional display applications. At the same time, independent and semi independent gamma correction ICs face integration pressure. Some functions are being absorbed into display power management chips, display

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driver ICs, or timing controllers, while OLED and other new display technologies reduce the addressable base in some traditional LCD applications. The future market is therefore likely to show structural rather than broad based growth. Consumer display demand is expected to remain stable, while automotive, industrial, and professional display applications provide the main long term support.

This report studies the global Display Gamma Correction IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Display Gamma Correction IC 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 Display Gamma Correction IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Display Gamma Correction IC total production and demand, 2021-2032, (Million Units)
Global Display Gamma Correction IC total production value, 2021-2032, (USD Million)
Global Display Gamma Correction IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Display Gamma Correction IC consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Display Gamma Correction IC domestic production, consumption, key domestic manufacturers and share
Global Display Gamma Correction IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Display Gamma Correction IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)
Global Display Gamma Correction IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Display Gamma Correction IC 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 Texas Instruments Incorporated, Analog Devices, Inc., Renesas Electronics Corporation, Richtek Technology Corporation, Himax Technologies, Inc., Chipone Technology (Beijing) Co., Ltd., Global

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Mixed-mode Technology Inc., ROHM Co., Ltd., uPI Semiconductor Corp., Nisshinbo Micro Devices Inc., 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 Display Gamma Correction IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million 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 Display Gamma Correction IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Display Gamma Correction IC Market, Segmentation by Type:

Programmable Gamma Reference IC

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Gamma Buffer IC

Gamma and VCOM Buffer IC

P Gamma and DVCOM IC

Integrated Gamma Analog Companion IC

Others

Global Display Gamma Correction IC Market, Segmentation by Channel Count:

Low Channel Count ICs 6 Channels or Below

Medium Channel Count ICs 7 to 10 Channels

High Channel Count ICs 11 to 16 Channels

Ultra High Channel Count ICs above 16 Channels

Others

Global Display Gamma Correction IC Market, Segmentation by Reliability Grade:

Commercial Grade ICs

Industrial Grade ICs

Automotive Grade ICs

High Reliability Custom ICs

Others

Global Display Gamma Correction IC Market, Segmentation by Application:

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Consumer Electronics

Automotive and Transportation

Industrial Equipment

Medical Devices and Instruments

Professional and Commercial Displays

Others

Companies Profiled:

Texas Instruments Incorporated

Analog Devices, Inc.

Renesas Electronics Corporation

Richtek Technology Corporation

Himax Technologies, Inc.

Chipone Technology (Beijing) Co., Ltd.

Global Mixed-mode Technology Inc.

ROHM Co., Ltd.

uPI Semiconductor Corp.

Nisshinbo Micro Devices Inc.

ANPEC Electronics Corporation

Shenzhen Lowpower Semiconductor Co., Ltd.

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Key Questions Answered:

1. How big is the global Display Gamma Correction IC market?
2. What is the demand of the global Display Gamma Correction IC market?
3. What is the year over year growth of the global Display Gamma Correction IC market?
4. What is the production and production value of the global Display Gamma Correction IC market?
5. Who are the key producers in the global Display Gamma Correction IC market?
6. What are the growth factors driving the market demand?

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