

Global Display Gamma Correction IC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Display Gamma Correction IC market size was valued at US\$ 297 million in 2025 and is forecast to a readjusted size of US\$ 425 million by 2032 with a CAGR of 5.2% during review period.

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 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 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 is a detailed and comprehensive analysis for global Display Gamma Correction IC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Display Gamma Correction IC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Display Gamma Correction IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Display Gamma Correction IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Display Gamma Correction IC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Display Gamma Correction IC

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Display Gamma Correction IC market based on the following parameters - company overview, sales quantity, revenue, 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 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.

Market Segmentation

Display Gamma Correction IC market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Programmable Gamma Reference IC

Gamma Buffer IC

Gamma and VCOM Buffer IC

P Gamma and DVCOM IC

Integrated Gamma Analog Companion IC

Others

Market segment 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

Market segment by Reliability Grade

Commercial Grade ICs

Industrial Grade ICs

Automotive Grade ICs

High Reliability Custom ICs

Others

Market segment by Application

Consumer Electronics

Automotive and Transportation

Industrial Equipment

Medical Devices and Instruments

Professional and Commercial Displays

Others

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Display Gamma Correction IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Display Gamma Correction IC, with price, sales quantity, revenue, and global market share of Display Gamma Correction IC from 2021 to 2026.

Chapter 3, the Display Gamma Correction IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Display Gamma Correction IC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Display Gamma Correction IC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Display Gamma Correction IC.

Chapter 14 and 15, to describe Display Gamma Correction IC sales channel, distributors, customers, research findings and conclusion.

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