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Global Grid Protection Control IC Market Growth 2026-2032

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Abstracts

The global Grid Protection Control IC market size is predicted to grow from US$ 475 million in 2025 to US$ 835 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

Grid Protection Control IC refers to semiconductor devices designed for or demonstrably deployed in real-time protection, monitoring and control functions across transmission, substations, distribution networks, power generation facilities and other critical electrical systems. The market primarily covers precision simultaneous-sampling ADCs and data-acquisition devices, protection-oriented MCUs, DSPs and industrial processors, FPGAs and FPGA-based SoCs, dedicated protection-control SoCs, and selected protection interface ICs. These devices acquire and digitize voltage and current signals, execute fault-detection and protection algorithms, process deterministic communication traffic, and generate protection or control decisions with stringent requirements for sampling synchronization, dynamic range, processing latency, electromagnetic compatibility, industrial-temperature operation and long-term reliability. Representative protection data-acquisition architectures commonly use multi-channel simultaneous sampling, with 16-bit conversion and 4–8-channel configurations widely represented in current product platforms. Grid Protection Control ICs are mainly deployed in protective relays, protection IEDs, merging units, distribution automation terminals, substation protection and control platforms, HVDC control and protection systems, renewable-energy interconnection protection and other high-reliability power-system applications.

Key Findings

The verified Core Formal List contains 15 suppliers across ADC, processor,

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FPGA/FPSoC and dedicated SoC architectures

Representative protection acquisition designs commonly center on 16-bit simultaneous sampling and 4–8-channel configurations

North America is strong in high-value precision analog and FPGA layers, while China has the broadest verified local supplier pool

Power Grid & Utilities remains the core application market, with renewable energy, storage and critical power infrastructure adding incremental demand

Market Trends

The Grid Protection Control IC market is moving from traditional multi-chip architectures built around separate ADCs, processors and FPGAs toward more integrated heterogeneous computing platforms. Higher-performance simultaneous-sampling ADCs remain essential because protection accuracy and fault discrimination depend on synchronized voltage and current acquisition, while FPGA/FPSoC and dedicated SoC architectures are gaining importance as protection algorithms, communication processing and cybersecurity functions become more complex. IEC 61850-based process-bus architectures are increasing the importance of deterministic handling of Sampled Values and GOOSE traffic, reinforcing demand for real-time processing, programmable acceleration and precise time synchronization. At the same time, protection and control hardware is gradually becoming more software-defined. CIGRE has highlighted virtual IED architectures in which multiple protection applications can be consolidated on rugged multicore computing platforms, indicating that future semiconductor value may migrate from numerous low-compute devices toward fewer but more capable processors, programmable logic and high-reliability acquisition devices.

Market Dynamics

Drivers

Grid modernization, aging protection equipment, renewable-energy integration and higher requirements for system resilience are the principal structural drivers for Grid Protection Control IC demand. Electricity networks increasingly require digital substations, more sophisticated fault analysis, faster protection decisions and higher levels of automation. Rising penetration of inverter-based resources changes fault-

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current characteristics compared with conventional synchronous generation, creating additional requirements for adaptive protection algorithms, high-resolution acquisition and greater real-time computing capability. The U.S. Department of Energy has identified system protection as an important reliability issue for grids with growing inverter-based resources, while the IEA continues to emphasize the need for substantially higher grid investment to support electricity-demand growth and renewable deployment. These factors support both replacement demand for existing protection IEDs and higher semiconductor content in new protection-control platforms.

Restraints

The main restraints are long design-in cycles, stringent reliability qualification, limited visibility into end-equipment semiconductor BOMs and the relatively small application revenue generated by protection products within large diversified semiconductor companies. Grid protection devices may remain in operation for many years, making utilities and protection-equipment manufacturers conservative when changing processors, ADCs or programmable logic. EMC immunity, deterministic latency, temperature capability, component longevity and software compatibility can be more important than nominal chip performance, raising qualification costs for new suppliers. Supply-chain changes are therefore slower than in consumer or general industrial electronics. In addition, continued integration of functions into fewer SoCs can reduce the number of discrete chips per protection device even while semiconductor value per computing platform increases.

Opportunities

The strongest opportunities are associated with higher semiconductor integration, localization of critical power-system components, digital substations and protection requirements created by renewable energy and energy storage. FPGA/FPSoC and dedicated protection-control SoCs can consolidate communication acceleration, protection logic and real-time processing, while higher-performance simultaneous-sampling ADCs can support wider dynamic ranges and more sophisticated fault analysis. China provides a particularly active opportunity for locally designed ADCs, processors, FPGAs and power-specific SoCs as domestic suppliers move from peripheral components into core protection signal chains. New opportunities are also emerging in renewable-energy interconnection, battery energy storage, microgrids, data centers and other critical power infrastructures where higher power density and reliability requirements increase the value of fast, deterministic protection and control.

Challenges

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The principal long-term challenge is balancing increasing protection complexity with architectural consolidation. Virtualized and centralized protection may reduce the number of standalone physical IEDs, changing semiconductor demand from a device-count-driven model toward a computing-value-driven model. Suppliers must also support long product lifecycles, cybersecurity requirements, IEC 61850 interoperability, deterministic response and extensive field validation, while maintaining competitiveness against established global semiconductor platforms. In emerging local supply chains, achieving commercial-scale deployment is more difficult than demonstrating technical functionality because utilities and protection-equipment manufacturers require extensive reliability and operational evidence. The increasing complexity of inverter-based power systems also creates an ongoing challenge for protection algorithms and device qualification because fault behavior can vary substantially from traditional synchronous-grid conditions.

Industry Chain Analysis

The upstream Grid Protection Control IC industry chain consists of semiconductor IP and EDA tools, silicon wafers, specialty process technologies, foundry capacity, packaging and testing, and supporting semiconductor materials and equipment. Precision analog acquisition devices place particular emphasis on analog process capability, low-noise design, calibration and test, while processors and FPGA/FPSoCs depend more heavily on digital design, embedded IP, memory interfaces and programmable-logic architectures. Many suppliers operate fabless models and rely on external wafer foundries and packaging partners, while several major international semiconductor companies retain substantial internal manufacturing capacity. Because grid protection products have long qualification and supply-life requirements, manufacturing consistency and long-term process availability are important components of supplier competitiveness.

The midstream value chain is concentrated in IC architecture, analog signal-chain design, real-time processing, programmable logic, firmware ecosystems, reliability validation and application-specific reference designs. Downstream demand originates from protective relay and IED manufacturers, substation automation providers, HVDC control-protection platforms, distribution automation equipment and other high-reliability electrical-control systems. Value creation is not determined only by wafer cost; product qualification, deterministic software support, application engineering, long-term supply commitments and compatibility with established protection platforms materially influence pricing and supplier selection. This structure favors suppliers that can combine semiconductor performance with long product lifecycles and application-domain

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expertise.

Segment Insights

By product type, the market is centered on Precision ADC/DAS, MCU/DSP/DSC, MPU/Application Processor, FPGA/FPSoC, Dedicated Protection SoC and Protection Interface IC categories. Precision ADC and data-acquisition products form a critical value layer because nearly all digital protection architectures depend on synchronized conversion of voltage and current signals before protection algorithms can operate. Processors remain fundamental for numerical protection algorithms and system management, while FPGA/FPSoC products occupy a differentiated position where parallel processing, deterministic protocol handling and hardware acceleration are required. Dedicated protection-control SoCs remain a smaller but strategically important category because they can integrate multiple functions previously implemented with separate processors, programmable logic and interfaces.

From an architecture perspective, discrete multi-chip solutions remain widely deployed due to established qualification histories and modular design practices, but heterogeneous SoCs and FPGA-based SoCs offer stronger structural growth potential as system complexity rises. The technical opportunity is therefore shifting toward devices that deliver a combination of deterministic computing, programmable acceleration, high-reliability communication and long-term industrial availability rather than simply higher general-purpose processing performance. The evolution is likely to be gradual because grid protection platforms prioritize validated reliability over rapid semiconductor replacement.

Downstream Market Opportunities

Power Grid & Utilities remains the central application market for Grid Protection Control ICs because transmission, substation and distribution protection require continuous investment in protective relays, protection IEDs, merging units and automation platforms. Power Generation remains an established market, while Renewable Energy & Energy Storage provides a growing source of incremental demand as inverter-based generation alters grid fault behavior and increases the need for adaptive protection and interconnection control. Industrial & Commercial Power, Transportation Electrification and other critical infrastructure provide additional opportunities where power continuity and fast fault isolation are economically important. Data centers and other high-density critical loads are also increasing requirements for highly reliable electrical protection architectures, although their semiconductor demand is generally embedded within

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broader medium- and high-voltage protection systems rather than represented as a standalone chip market.

Regional Insights

North America maintains a strong position in the highest-value semiconductor layers, particularly precision analog acquisition and FPGA/programmable computing, supported by globally established semiconductor suppliers and mature protection-equipment ecosystems. China has the broadest verified emerging local supplier pool, spanning precision ADCs, MCUs and processors, FPGAs/FPSoCs and dedicated power-system SoCs. Its competitive profile is increasingly characterized by localization of core protection functions rather than only replacement of peripheral components. This creates opportunities for domestic semiconductor suppliers with proven field reliability and compatibility with established protection platforms.

Europe and Japan retain deep power-system engineering capabilities and major protection-equipment manufacturers, but a larger proportion of their semiconductor demand is embedded within equipment platforms rather than represented by independent, protection-specific merchant IC suppliers. South Korea, Taiwan and Southeast Asia are important parts of the broader semiconductor manufacturing ecosystem, although the number of publicly verified standalone Grid Protection Control IC suppliers remains comparatively limited. Regional competition is therefore shaped not only by end-market demand but also by differences in semiconductor design capability, utility qualification practices, domestic supply-chain policies and the degree of vertical integration between chip suppliers and protection-equipment manufacturers.

Competitive Landscape Analysis

The Grid Protection Control IC market has a layered competitive structure rather than a single-company leadership model. The verified Core Formal List contains 15 suppliers, reflecting different competitive positions across precision data acquisition, real-time processing, programmable logic and dedicated power-system SoCs. Analog Devices and Texas Instruments have strong positions in protection-oriented precision acquisition and signal-chain devices; AMD and Altera participate through FPGA and heterogeneous computing architectures; NXP and Renesas provide embedded-processing and mixed-signal capabilities; and a growing group of Chinese suppliers competes across dedicated protection-control chips, precision ADCs, FPGA/FPSoCs and industrial processors. Competition is increasingly determined by application qualification, deterministic performance, long-term product availability, EMC reliability

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and integration with protection-equipment platforms rather than by nominal semiconductor specifications alone. The market is therefore likely to remain multi-supplier and architecture-dependent, while greater integration may gradually shift competitive advantage toward vendors capable of combining acquisition, processing, programmable acceleration and power-system-specific functions on fewer devices.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Grid Protection Control IC Industry Forecast” looks at past sales and reviews total world Grid Protection Control IC sales in 2025, providing a comprehensive analysis by region and market sector of projected Grid Protection Control IC sales for 2026 through 2032. With Grid Protection Control IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Grid Protection Control IC industry.

This Insight Report provides a comprehensive analysis of the global Grid Protection Control IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Grid Protection Control IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Grid Protection Control IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Grid Protection Control IC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Grid Protection Control IC.

This report presents a comprehensive overview, market shares, and growth opportunities of Grid Protection Control IC market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

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Precision ADC / DAS

MCU / DSP / DSC

Other

Segmentation by Integration Architecture:

Discrete Multi-chip

CPU + FPGA Heterogeneous

Other

Segmentation by ADC Resolution:

?12-bit

13–14-bit

15–16-bit

17–18-bit

>18-bit

Segmentation by Simultaneous Sampling Channels:

1–2 Channels

3–4 Channels

5–8 Channels

9–16 Channels

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>16 Channels

Segmentation by Application:

Power Grid & Utilities

Industrial & Commercial Power

Transportation Electrification

Data Center & Critical Infrastructure

Other Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Advanced Micro Devices, Inc.

Texas Instruments Incorporated

NXP Semiconductors N.V.

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Analog Devices, Inc.

Renesas Electronics Corporation

Altera Corporation

CSG Digital Power Grid Research Institute Co., Ltd.

BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED

Rockchip Electronics Co., Ltd.

Shanghai Fudan Microelectronics Group Company Limited

Shanghai Belling Corp., Ltd.

Pango Micro

Phytium Technology Co., Ltd.

Shanghai Anlogic Infotech Co., Ltd.

Jiangsu Nebula Electronic Technology Co., Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Grid Protection Control IC market?

What factors are driving Grid Protection Control IC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Grid Protection Control IC market opportunities vary by end market size?

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How does Grid Protection Control IC break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Grid Protection Control IC Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Grid Protection Control IC by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Grid Protection Control IC by Country/Region, 2021, 2025 & 2032
2.2 Grid Protection Control IC Segment by Type
  2.2.1 Precision ADC / DAS
  2.2.2 MCU / DSP / DSC
  2.2.3 Other
  2.2.4 Grid Protection Control IC Sales by Type
    2.2.4.1 Global Grid Protection Control IC Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Grid Protection Control IC Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Grid Protection Control IC Sale Price by Type (2021-2026)
2.3 Grid Protection Control IC Segment by Integration Architecture
  2.3.1 Discrete Multi-chip
  2.3.2 CPU + FPGA Heterogeneous
  2.3.3 Other
  2.3.4 Grid Protection Control IC Sales by Integration Architecture
    2.3.4.1 Global Grid Protection Control IC Sales Market Share by Integration Architecture (2021-2026)
    2.3.4.2 Global Grid Protection Control IC Revenue and Market Share by Integration Architecture (2021-2026)

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2.3.4.3 Global Grid Protection Control IC Sale Price by Integration Architecture (2021-2026)
2.4 Grid Protection Control IC Segment by ADC Resolution
2.4.1 ?12-bit
2.4.2 13–14-bit
2.4.3 15–16-bit
2.4.4 17–18-bit
2.4.5 >18-bit
2.4.6 Grid Protection Control IC Sales by ADC Resolution
2.4.6.1 Global Grid Protection Control IC Sales Market Share by ADC Resolution (2021-2026)
2.4.6.2 Global Grid Protection Control IC Revenue and Market Share by ADC Resolution (2021-2026)
2.4.6.3 Global Grid Protection Control IC Sale Price by ADC Resolution (2021-2026)
2.5 Grid Protection Control IC Segment by Simultaneous Sampling Channels
2.5.1 1–2 Channels
2.5.2 3–4 Channels
2.5.3 5–8 Channels
2.5.4 9–16 Channels
2.5.5 >16 Channels
2.5.6 Grid Protection Control IC Sales by Simultaneous Sampling Channels
2.5.6.1 Global Grid Protection Control IC Sales Market Share by Simultaneous Sampling Channels (2021-2026)
2.5.6.2 Global Grid Protection Control IC Revenue and Market Share by Simultaneous Sampling Channels (2021-2026)
2.5.6.3 Global Grid Protection Control IC Sale Price by Simultaneous Sampling Channels (2021-2026)
2.6 Grid Protection Control IC Segment by Application
2.6.1 Power Grid & Utilities
2.6.2 Industrial & Commercial Power
2.6.3 Transportation Electrification
2.6.4 Data Center & Critical Infrastructure
2.6.5 Other Applications
2.6.6 Grid Protection Control IC Sales by Application
2.6.6.1 Global Grid Protection Control IC Sale Market Share by Application (2021-2026)
2.6.6.2 Global Grid Protection Control IC Revenue and Market Share by Application (2021-2026)
2.6.6.3 Global Grid Protection Control IC Sale Price by Application (2021-2026)

+357 96 030922
info@marketpublishers.com

3 GLOBAL BY COMPANY

3.1 Global Grid Protection Control IC Breakdown Data by Company
3.1.1 Global Grid Protection Control IC Annual Sales by Company (2021-2026)
3.1.2 Global Grid Protection Control IC Sales Market Share by Company (2021-2026)
3.2 Global Grid Protection Control IC Annual Revenue by Company (2021-2026)
3.2.1 Global Grid Protection Control IC Revenue by Company (2021-2026)
3.2.2 Global Grid Protection Control IC Revenue Market Share by Company (2021-2026)
3.3 Global Grid Protection Control IC Sale Price by Company
3.4 Key Manufacturers Grid Protection Control IC Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Grid Protection Control IC Product Location Distribution
3.4.2 Players Grid Protection Control IC Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GRID PROTECTION CONTROL IC BY GEOGRAPHIC REGION

4.1 World Historic Grid Protection Control IC Market Size by Geographic Region (2021-2026)
4.1.1 Global Grid Protection Control IC Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Grid Protection Control IC Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Grid Protection Control IC Market Size by Country/Region (2021-2026)
4.2.1 Global Grid Protection Control IC Annual Sales by Country/Region (2021-2026)
4.2.2 Global Grid Protection Control IC Annual Revenue by Country/Region (2021-2026)
4.3 Americas Grid Protection Control IC Sales Growth
4.4 APAC Grid Protection Control IC Sales Growth
4.5 Europe Grid Protection Control IC Sales Growth
4.6 Middle East & Africa Grid Protection Control IC Sales Growth

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5 AMERICAS

5.1 Americas Grid Protection Control IC Sales by Country
5.1.1 Americas Grid Protection Control IC Sales by Country (2021-2026)
5.1.2 Americas Grid Protection Control IC Revenue by Country (2021-2026)
5.2 Americas Grid Protection Control IC Sales by Type (2021-2026)
5.3 Americas Grid Protection Control IC Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Grid Protection Control IC Sales by Region
6.1.1 APAC Grid Protection Control IC Sales by Region (2021-2026)
6.1.2 APAC Grid Protection Control IC Revenue by Region (2021-2026)
6.2 APAC Grid Protection Control IC Sales by Type (2021-2026)
6.3 APAC Grid Protection Control IC Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Grid Protection Control IC by Country
7.1.1 Europe Grid Protection Control IC Sales by Country (2021-2026)
7.1.2 Europe Grid Protection Control IC Revenue by Country (2021-2026)
7.2 Europe Grid Protection Control IC Sales by Type (2021-2026)
7.3 Europe Grid Protection Control IC Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy

+357 96 030922
info@marketpublishers.com

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Grid Protection Control IC by Country
  8.1.1 Middle East & Africa Grid Protection Control IC Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Grid Protection Control IC Revenue by Country (2021-2026)
8.2 Middle East & Africa Grid Protection Control IC Sales by Type (2021-2026)
8.3 Middle East & Africa Grid Protection Control IC Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Grid Protection Control IC
10.3 Manufacturing Process Analysis of Grid Protection Control IC
10.4 Industry Chain Structure of Grid Protection Control IC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Grid Protection Control IC Distributors
11.3 Grid Protection Control IC Customer

12 WORLD FORECAST REVIEW FOR GRID PROTECTION CONTROL IC BY GEOGRAPHIC REGION

+357 96 030922
info@marketpublishers.com

12.1 Global Grid Protection Control IC Market Size Forecast by Region
12.1.1 Global Grid Protection Control IC Forecast by Region (2027-2032)
12.1.2 Global Grid Protection Control IC Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Grid Protection Control IC Forecast by Type (2027-2032)
12.7 Global Grid Protection Control IC Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Advanced Micro Devices, Inc.
13.1.1 Advanced Micro Devices, Inc. Company Information
13.1.2 Advanced Micro Devices, Inc. Grid Protection Control IC Product Portfolios and Specifications
13.1.3 Advanced Micro Devices, Inc. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Advanced Micro Devices, Inc. Main Business Overview
13.1.5 Advanced Micro Devices, Inc. Latest Developments
13.2 Texas Instruments Incorporated
13.2.1 Texas Instruments Incorporated Company Information
13.2.2 Texas Instruments Incorporated Grid Protection Control IC Product Portfolios and Specifications
13.2.3 Texas Instruments Incorporated Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Texas Instruments Incorporated Main Business Overview
13.2.5 Texas Instruments Incorporated Latest Developments
13.3 NXP Semiconductors N.V.
13.3.1 NXP Semiconductors N.V. Company Information
13.3.2 NXP Semiconductors N.V. Grid Protection Control IC Product Portfolios and Specifications
13.3.3 NXP Semiconductors N.V. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 NXP Semiconductors N.V. Main Business Overview
13.3.5 NXP Semiconductors N.V. Latest Developments
13.4 Analog Devices, Inc.
13.4.1 Analog Devices, Inc. Company Information

+357 96 030922
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13.4.2 Analog Devices, Inc. Grid Protection Control IC Product Portfolios and Specifications
13.4.3 Analog Devices, Inc. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Analog Devices, Inc. Main Business Overview
13.4.5 Analog Devices, Inc. Latest Developments
13.5 Renesas Electronics Corporation
13.5.1 Renesas Electronics Corporation Company Information
13.5.2 Renesas Electronics Corporation Grid Protection Control IC Product Portfolios and Specifications
13.5.3 Renesas Electronics Corporation Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Renesas Electronics Corporation Main Business Overview
13.5.5 Renesas Electronics Corporation Latest Developments
13.6 Altera Corporation
13.6.1 Altera Corporation Company Information
13.6.2 Altera Corporation Grid Protection Control IC Product Portfolios and Specifications
13.6.3 Altera Corporation Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Altera Corporation Main Business Overview
13.6.5 Altera Corporation Latest Developments
13.7 CSG Digital Power Grid Research Institute Co., Ltd.
13.7.1 CSG Digital Power Grid Research Institute Co., Ltd. Company Information
13.7.2 CSG Digital Power Grid Research Institute Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
13.7.3 CSG Digital Power Grid Research Institute Co., Ltd. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 CSG Digital Power Grid Research Institute Co., Ltd. Main Business Overview
13.7.5 CSG Digital Power Grid Research Institute Co., Ltd. Latest Developments
13.8 BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED
13.8.1 BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Company Information
13.8.2 BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Grid Protection Control IC Product Portfolios and Specifications
13.8.3 BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

13.8.4 BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Main Business Overview
13.8.5 BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Latest Developments
13.9 Rockchip Electronics Co., Ltd.
13.9.1 Rockchip Electronics Co., Ltd. Company Information
13.9.2 Rockchip Electronics Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
13.9.3 Rockchip Electronics Co., Ltd. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Rockchip Electronics Co., Ltd. Main Business Overview
13.9.5 Rockchip Electronics Co., Ltd. Latest Developments
13.10 Shanghai Fudan Microelectronics Group Company Limited
13.10.1 Shanghai Fudan Microelectronics Group Company Limited Company Information
13.10.2 Shanghai Fudan Microelectronics Group Company Limited Grid Protection Control IC Product Portfolios and Specifications
13.10.3 Shanghai Fudan Microelectronics Group Company Limited Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Shanghai Fudan Microelectronics Group Company Limited Main Business Overview
13.10.5 Shanghai Fudan Microelectronics Group Company Limited Latest Developments
13.11 Shanghai Belling Corp., Ltd.
13.11.1 Shanghai Belling Corp., Ltd. Company Information
13.11.2 Shanghai Belling Corp., Ltd. Grid Protection Control IC Product Portfolios and Specifications
13.11.3 Shanghai Belling Corp., Ltd. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Shanghai Belling Corp., Ltd. Main Business Overview
13.11.5 Shanghai Belling Corp., Ltd. Latest Developments
13.12 Pango Micro
13.12.1 Pango Micro Company Information
13.12.2 Pango Micro Grid Protection Control IC Product Portfolios and Specifications
13.12.3 Pango Micro Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Pango Micro Main Business Overview
13.12.5 Pango Micro Latest Developments
13.13 Phytium Technology Co., Ltd.

+357 96 030922
info@marketpublishers.com

13.13.1 Phytium Technology Co., Ltd. Company Information
13.13.2 Phytium Technology Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
13.13.3 Phytium Technology Co., Ltd. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Phytium Technology Co., Ltd. Main Business Overview
13.13.5 Phytium Technology Co., Ltd. Latest Developments
13.14 Shanghai Anlogic Infotech Co., Ltd.
13.14.1 Shanghai Anlogic Infotech Co., Ltd. Company Information
13.14.2 Shanghai Anlogic Infotech Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
13.14.3 Shanghai Anlogic Infotech Co., Ltd. Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Shanghai Anlogic Infotech Co., Ltd. Main Business Overview
13.14.5 Shanghai Anlogic Infotech Co., Ltd. Latest Developments
13.15 Jiangsu Nebula Electronic Technology Co., Ltd
13.15.1 Jiangsu Nebula Electronic Technology Co., Ltd Company Information
13.15.2 Jiangsu Nebula Electronic Technology Co., Ltd Grid Protection Control IC Product Portfolios and Specifications
13.15.3 Jiangsu Nebula Electronic Technology Co., Ltd Grid Protection Control IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Jiangsu Nebula Electronic Technology Co., Ltd Main Business Overview
13.15.5 Jiangsu Nebula Electronic Technology Co., Ltd Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Grid Protection Control IC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Grid Protection Control IC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Precision ADC / DAS
Table 4. Major Players of MCU / DSP / DSC
Table 5. Major Players of Other
Table 6. Global Grid Protection Control IC Sales by Type (2021-2026) & (Million Units)
Table 7. Global Grid Protection Control IC Sales Market Share by Type (2021-2026)
Table 8. Global Grid Protection Control IC Revenue by Type (2021-2026) & ($ million)
Table 9. Global Grid Protection Control IC Revenue Market Share by Type (2021-2026)
Table 10. Global Grid Protection Control IC Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Major Players of Discrete Multi-chip
Table 12. Major Players of CPU + FPGA Heterogeneous
Table 13. Major Players of Other
Table 14. Global Grid Protection Control IC Sales by Integration Architecture (2021-2026) & (Million Units)
Table 15. Global Grid Protection Control IC Sales Market Share by Integration Architecture (2021-2026)
Table 16. Global Grid Protection Control IC Revenue by Integration Architecture (2021-2026) & ($ million)
Table 17. Global Grid Protection Control IC Revenue Market Share by Integration Architecture (2021-2026)
Table 18. Global Grid Protection Control IC Sale Price by Integration Architecture (2021-2026) & (US$/Unit)
Table 19. Major Players of ?12-bit
Table 20. Major Players of 13–14-bit
Table 21. Major Players of 15–16-bit
Table 22. Major Players of 17–18-bit
Table 23. Major Players of >18-bit
Table 24. Global Grid Protection Control IC Sales by ADC Resolution (2021-2026) & (Million Units)
Table 25. Global Grid Protection Control IC Sales Market Share by ADC Resolution (2021-2026)

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Table 26. Global Grid Protection Control IC Revenue by ADC Resolution (2021-2026) & ($ million)
Table 27. Global Grid Protection Control IC Revenue Market Share by ADC Resolution (2021-2026)
Table 28. Global Grid Protection Control IC Sale Price by ADC Resolution (2021-2026) & (US$/Unit)
Table 29. Major Players of 1–2 Channels
Table 30. Major Players of 3–4 Channels
Table 31. Major Players of 5–8 Channels
Table 32. Major Players of 9–16 Channels
Table 33. Major Players of >16 Channels
Table 34. Global Grid Protection Control IC Sales by Simultaneous Sampling Channels (2021-2026) & (Million Units)
Table 35. Global Grid Protection Control IC Sales Market Share by Simultaneous Sampling Channels (2021-2026)
Table 36. Global Grid Protection Control IC Revenue by Simultaneous Sampling Channels (2021-2026) & ($ million)
Table 37. Global Grid Protection Control IC Revenue Market Share by Simultaneous Sampling Channels (2021-2026)
Table 38. Global Grid Protection Control IC Sale Price by Simultaneous Sampling Channels (2021-2026) & (US$/Unit)
Table 39. Global Grid Protection Control IC Sale by Application (2021-2026) & (Million Units)
Table 40. Global Grid Protection Control IC Sale Market Share by Application (2021-2026)
Table 41. Global Grid Protection Control IC Revenue by Application (2021-2026) & ($ million)
Table 42. Global Grid Protection Control IC Revenue Market Share by Application (2021-2026)
Table 43. Global Grid Protection Control IC Sale Price by Application (2021-2026) & (US$/Unit)
Table 44. Global Grid Protection Control IC Sales by Company (2021-2026) & (Million Units)
Table 45. Global Grid Protection Control IC Sales Market Share by Company (2021-2026)
Table 46. Global Grid Protection Control IC Revenue by Company (2021-2026) & ($ millions)
Table 47. Global Grid Protection Control IC Revenue Market Share by Company (2021-2026)

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Table 48. Global Grid Protection Control IC Sale Price by Company (2021-2026) & (US$/Unit)
Table 49. Key Manufacturers Grid Protection Control IC Producing Area Distribution and Sales Area
Table 50. Players Grid Protection Control IC Products Offered
Table 51. Grid Protection Control IC Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 52. New Products and Potential Entrants
Table 53. Market M&A Activity & Strategy
Table 54. Global Grid Protection Control IC Sales by Geographic Region (2021-2026) & (Million Units)
Table 55. Global Grid Protection Control IC Sales Market Share Geographic Region (2021-2026)
Table 56. Global Grid Protection Control IC Revenue by Geographic Region (2021-2026) & ($ millions)
Table 57. Global Grid Protection Control IC Revenue Market Share by Geographic Region (2021-2026)
Table 58. Global Grid Protection Control IC Sales by Country/Region (2021-2026) & (Million Units)
Table 59. Global Grid Protection Control IC Sales Market Share by Country/Region (2021-2026)
Table 60. Global Grid Protection Control IC Revenue by Country/Region (2021-2026) & ($ millions)
Table 61. Global Grid Protection Control IC Revenue Market Share by Country/Region (2021-2026)
Table 62. Americas Grid Protection Control IC Sales by Country (2021-2026) & (Million Units)
Table 63. Americas Grid Protection Control IC Sales Market Share by Country (2021-2026)
Table 64. Americas Grid Protection Control IC Revenue by Country (2021-2026) & ($ millions)
Table 65. Americas Grid Protection Control IC Sales by Type (2021-2026) & (Million Units)
Table 66. Americas Grid Protection Control IC Sales by Application (2021-2026) & (Million Units)
Table 67. APAC Grid Protection Control IC Sales by Region (2021-2026) & (Million Units)
Table 68. APAC Grid Protection Control IC Sales Market Share by Region (2021-2026)
Table 69. APAC Grid Protection Control IC Revenue by Region (2021-2026) & ($

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millions)
Table 70. APAC Grid Protection Control IC Sales by Type (2021-2026) & (Million Units)
Table 71. APAC Grid Protection Control IC Sales by Application (2021-2026) & (Million Units)
Table 72. Europe Grid Protection Control IC Sales by Country (2021-2026) & (Million Units)
Table 73. Europe Grid Protection Control IC Revenue by Country (2021-2026) & ($ millions)
Table 74. Europe Grid Protection Control IC Sales by Type (2021-2026) & (Million Units)
Table 75. Europe Grid Protection Control IC Sales by Application (2021-2026) & (Million Units)
Table 76. Middle East & Africa Grid Protection Control IC Sales by Country (2021-2026) & (Million Units)
Table 77. Middle East & Africa Grid Protection Control IC Revenue Market Share by Country (2021-2026)
Table 78. Middle East & Africa Grid Protection Control IC Sales by Type (2021-2026) & (Million Units)
Table 79. Middle East & Africa Grid Protection Control IC Sales by Application (2021-2026) & (Million Units)
Table 80. Key Market Drivers & Growth Opportunities of Grid Protection Control IC
Table 81. Key Market Challenges & Risks of Grid Protection Control IC
Table 82. Key Industry Trends of Grid Protection Control IC
Table 83. Grid Protection Control IC Raw Material
Table 84. Key Suppliers of Raw Materials
Table 85. Grid Protection Control IC Distributors List
Table 86. Grid Protection Control IC Customer List
Table 87. Global Grid Protection Control IC Sales Forecast by Region (2027-2032) & (Million Units)
Table 88. Global Grid Protection Control IC Revenue Forecast by Region (2027-2032) & ($ millions)
Table 89. Americas Grid Protection Control IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 90. Americas Grid Protection Control IC Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 91. APAC Grid Protection Control IC Sales Forecast by Region (2027-2032) & (Million Units)
Table 92. APAC Grid Protection Control IC Annual Revenue Forecast by Region (2027-2032) & ($ millions)

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Table 93. Europe Grid Protection Control IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 94. Europe Grid Protection Control IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 95. Middle East & Africa Grid Protection Control IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 96. Middle East & Africa Grid Protection Control IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 97. Global Grid Protection Control IC Sales Forecast by Type (2027-2032) & (Million Units)
Table 98. Global Grid Protection Control IC Revenue Forecast by Type (2027-2032) & ($ millions)
Table 99. Global Grid Protection Control IC Sales Forecast by Application (2027-2032) & (Million Units)
Table 100. Global Grid Protection Control IC Revenue Forecast by Application (2027-2032) & ($ millions)
Table 101. Advanced Micro Devices, Inc. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 102. Advanced Micro Devices, Inc. Grid Protection Control IC Product Portfolios and Specifications
Table 103. Advanced Micro Devices, Inc. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 104. Advanced Micro Devices, Inc. Main Business
Table 105. Advanced Micro Devices, Inc. Latest Developments
Table 106. Texas Instruments Incorporated Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 107. Texas Instruments Incorporated Grid Protection Control IC Product Portfolios and Specifications
Table 108. Texas Instruments Incorporated Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 109. Texas Instruments Incorporated Main Business
Table 110. Texas Instruments Incorporated Latest Developments
Table 111. NXP Semiconductors N.V. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 112. NXP Semiconductors N.V. Grid Protection Control IC Product Portfolios and Specifications
Table 113. NXP Semiconductors N.V. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 114. NXP Semiconductors N.V. Main Business

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Table 115. NXP Semiconductors N.V. Latest Developments
Table 116. Analog Devices, Inc. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 117. Analog Devices, Inc. Grid Protection Control IC Product Portfolios and Specifications
Table 118. Analog Devices, Inc. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 119. Analog Devices, Inc. Main Business
Table 120. Analog Devices, Inc. Latest Developments
Table 121. Renesas Electronics Corporation Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 122. Renesas Electronics Corporation Grid Protection Control IC Product Portfolios and Specifications
Table 123. Renesas Electronics Corporation Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 124. Renesas Electronics Corporation Main Business
Table 125. Renesas Electronics Corporation Latest Developments
Table 126. Altera Corporation Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 127. Altera Corporation Grid Protection Control IC Product Portfolios and Specifications
Table 128. Altera Corporation Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 129. Altera Corporation Main Business
Table 130. Altera Corporation Latest Developments
Table 131. CSG Digital Power Grid Research Institute Co., Ltd. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 132. CSG Digital Power Grid Research Institute Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
Table 133. CSG Digital Power Grid Research Institute Co., Ltd. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 134. CSG Digital Power Grid Research Institute Co., Ltd. Main Business
Table 135. CSG Digital Power Grid Research Institute Co., Ltd. Latest Developments
Table 136. BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 137. BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Grid Protection Control IC Product Portfolios and Specifications

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Table 138. BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 139. BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Main Business
Table 140. BEIJING SMARTCHIP MICROELECTRONICS TECHNOLOGY COMPANY LIMITED Latest Developments
Table 141. Rockchip Electronics Co., Ltd. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 142. Rockchip Electronics Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
Table 143. Rockchip Electronics Co., Ltd. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 144. Rockchip Electronics Co., Ltd. Main Business
Table 145. Rockchip Electronics Co., Ltd. Latest Developments
Table 146. Shanghai Fudan Microelectronics Group Company Limited Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 147. Shanghai Fudan Microelectronics Group Company Limited Grid Protection Control IC Product Portfolios and Specifications
Table 148. Shanghai Fudan Microelectronics Group Company Limited Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 149. Shanghai Fudan Microelectronics Group Company Limited Main Business
Table 150. Shanghai Fudan Microelectronics Group Company Limited Latest Developments
Table 151. Shanghai Belling Corp., Ltd. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 152. Shanghai Belling Corp., Ltd. Grid Protection Control IC Product Portfolios and Specifications
Table 153. Shanghai Belling Corp., Ltd. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 154. Shanghai Belling Corp., Ltd. Main Business
Table 155. Shanghai Belling Corp., Ltd. Latest Developments
Table 156. Pango Micro Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 157. Pango Micro Grid Protection Control IC Product Portfolios and Specifications
Table 158. Pango Micro Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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Table 159. Pango Micro Main Business
Table 160. Pango Micro Latest Developments
Table 161. Phytium Technology Co., Ltd. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 162. Phytium Technology Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
Table 163. Phytium Technology Co., Ltd. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 164. Phytium Technology Co., Ltd. Main Business
Table 165. Phytium Technology Co., Ltd. Latest Developments
Table 166. Shanghai Anlogic Infotech Co., Ltd. Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 167. Shanghai Anlogic Infotech Co., Ltd. Grid Protection Control IC Product Portfolios and Specifications
Table 168. Shanghai Anlogic Infotech Co., Ltd. Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 169. Shanghai Anlogic Infotech Co., Ltd. Main Business
Table 170. Shanghai Anlogic Infotech Co., Ltd. Latest Developments
Table 171. Jiangsu Nebula Electronic Technology Co., Ltd Basic Information, Grid Protection Control IC Manufacturing Base, Sales Area and Its Competitors
Table 172. Jiangsu Nebula Electronic Technology Co., Ltd Grid Protection Control IC Product Portfolios and Specifications
Table 173. Jiangsu Nebula Electronic Technology Co., Ltd Grid Protection Control IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 174. Jiangsu Nebula Electronic Technology Co., Ltd Main Business
Table 175. Jiangsu Nebula Electronic Technology Co., Ltd Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Grid Protection Control IC
Figure 2. Grid Protection Control IC Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Grid Protection Control IC Sales Growth Rate 2021-2032 (Million Units)
Figure 7. Global Grid Protection Control IC Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Grid Protection Control IC Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Grid Protection Control IC Sales Market Share by Country/Region (2025)
Figure 10. Grid Protection Control IC Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Precision ADC / DAS
Figure 12. Product Picture of MCU / DSP / DSC
Figure 13. Product Picture of Other
Figure 14. Global Grid Protection Control IC Sales Market Share by Type in 2026
Figure 15. Global Grid Protection Control IC Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Discrete Multi-chip
Figure 17. Product Picture of CPU + FPGA Heterogeneous
Figure 18. Product Picture of Other
Figure 19. Global Grid Protection Control IC Sales Market Share by Integration Architecture in 2026
Figure 20. Global Grid Protection Control IC Revenue Market Share by Integration Architecture (2021-2026)
Figure 21. Product Picture of ?12-bit
Figure 22. Product Picture of 13–14-bit
Figure 23. Product Picture of 15–16-bit
Figure 24. Product Picture of 17–18-bit
Figure 25. Product Picture of >18-bit
Figure 26. Global Grid Protection Control IC Sales Market Share by ADC Resolution in 2026
Figure 27. Global Grid Protection Control IC Revenue Market Share by ADC Resolution (2021-2026)

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Figure 28. Product Picture of 1–2 Channels
Figure 29. Product Picture of 3–4 Channels
Figure 30. Product Picture of 5–8 Channels
Figure 31. Product Picture of 9–16 Channels
Figure 32. Product Picture of >16 Channels
Figure 33. Global Grid Protection Control IC Sales Market Share by Simultaneous Sampling Channels in 2026
Figure 34. Global Grid Protection Control IC Revenue Market Share by Simultaneous Sampling Channels (2021-2026)
Figure 35. Grid Protection Control IC Consumed in Power Grid & Utilities
Figure 36. Global Grid Protection Control IC Market: Power Grid & Utilities (2021-2026) & (Million Units)
Figure 37. Grid Protection Control IC Consumed in Industrial & Commercial Power
Figure 38. Global Grid Protection Control IC Market: Industrial & Commercial Power (2021-2026) & (Million Units)
Figure 39. Grid Protection Control IC Consumed in Transportation Electrification
Figure 40. Global Grid Protection Control IC Market: Transportation Electrification (2021-2026) & (Million Units)
Figure 41. Grid Protection Control IC Consumed in Data Center & Critical Infrastructure
Figure 42. Global Grid Protection Control IC Market: Data Center & Critical Infrastructure (2021-2026) & (Million Units)
Figure 43. Grid Protection Control IC Consumed in Other Applications
Figure 44. Global Grid Protection Control IC Market: Other Applications (2021-2026) & (Million Units)
Figure 45. Global Grid Protection Control IC Sale Market Share by Application (2025)
Figure 46. Global Grid Protection Control IC Revenue Market Share by Application in 2025
Figure 47. Grid Protection Control IC Sales by Company in 2025 (Million Units)
Figure 48. Global Grid Protection Control IC Sales Market Share by Company in 2025
Figure 49. Grid Protection Control IC Revenue by Company in 2025 ($ millions)
Figure 50. Global Grid Protection Control IC Revenue Market Share by Company in 2025
Figure 51. Global Grid Protection Control IC Sales Market Share by Geographic Region (2021-2026)
Figure 52. Global Grid Protection Control IC Revenue Market Share by Geographic Region in 2025
Figure 53. Americas Grid Protection Control IC Sales 2021-2026 (Million Units)
Figure 54. Americas Grid Protection Control IC Revenue 2021-2026 ($ millions)
Figure 55. APAC Grid Protection Control IC Sales 2021-2026 (Million Units)

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Figure 56. APAC Grid Protection Control IC Revenue 2021-2026 ($ millions)
Figure 57. Europe Grid Protection Control IC Sales 2021-2026 (Million Units)
Figure 58. Europe Grid Protection Control IC Revenue 2021-2026 ($ millions)
Figure 59. Middle East & Africa Grid Protection Control IC Sales 2021-2026 (Million Units)
Figure 60. Middle East & Africa Grid Protection Control IC Revenue 2021-2026 ($ millions)
Figure 61. Americas Grid Protection Control IC Sales Market Share by Country in 2025
Figure 62. Americas Grid Protection Control IC Revenue Market Share by Country (2021-2026)
Figure 63. Americas Grid Protection Control IC Sales Market Share by Type (2021-2026)
Figure 64. Americas Grid Protection Control IC Sales Market Share by Application (2021-2026)
Figure 65. United States Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 66. Canada Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 67. Mexico Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 68. Brazil Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 69. APAC Grid Protection Control IC Sales Market Share by Region in 2025
Figure 70. APAC Grid Protection Control IC Revenue Market Share by Region (2021-2026)
Figure 71. APAC Grid Protection Control IC Sales Market Share by Type (2021-2026)
Figure 72. APAC Grid Protection Control IC Sales Market Share by Application (2021-2026)
Figure 73. China Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 74. Japan Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 75. South Korea Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 76. Southeast Asia Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 77. India Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 78. Australia Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 79. China Taiwan Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 80. Europe Grid Protection Control IC Sales Market Share by Country in 2025
Figure 81. Europe Grid Protection Control IC Revenue Market Share by Country (2021-2026)
Figure 82. Europe Grid Protection Control IC Sales Market Share by Type (2021-2026)

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Figure 83. Europe Grid Protection Control IC Sales Market Share by Application (2021-2026)
Figure 84. Germany Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 85. France Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 86. UK Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 87. Italy Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 88. Russia Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 89. Middle East & Africa Grid Protection Control IC Sales Market Share by Country (2021-2026)
Figure 90. Middle East & Africa Grid Protection Control IC Sales Market Share by Type (2021-2026)
Figure 91. Middle East & Africa Grid Protection Control IC Sales Market Share by Application (2021-2026)
Figure 92. Egypt Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 93. South Africa Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 94. Israel Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 95. Turkey Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 96. GCC Countries Grid Protection Control IC Revenue Growth 2021-2026 ($ millions)
Figure 97. Manufacturing Cost Structure Analysis of Grid Protection Control IC in 2026
Figure 98. Manufacturing Process Analysis of Grid Protection Control IC
Figure 99. Industry Chain Structure of Grid Protection Control IC
Figure 100. Channels of Distribution
Figure 101. Global Grid Protection Control IC Sales Market Forecast by Region (2027-2032)
Figure 102. Global Grid Protection Control IC Revenue Market Share Forecast by Region (2027-2032)
Figure 103. Global Grid Protection Control IC Sales Market Share Forecast by Type (2027-2032)
Figure 104. Global Grid Protection Control IC Revenue Market Share Forecast by Type (2027-2032)
Figure 105. Global Grid Protection Control IC Sales Market Share Forecast by Application (2027-2032)
Figure 106. Global Grid Protection Control IC Revenue Market Share Forecast by Application (2027-2032)

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