

Global AI Server Analog IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Server Analog IC market size is expected to reach \$ 13269 million by 2032, rising at a market growth of 17.4% CAGR during the forecast period (2026-2032).

In 2025, global sales of AI Server Analog IC reached approximately 760 million units, with an average market price of about USD 5.07 unit, an annual production capacity of roughly 780 million units, and an industry-average gross margin of approximately 60%.

AI Server Analog ICs are high-performance analog or mixed-signal integrated circuits designed to convert, regulate, distribute, protect, monitor and sequence electrical power within artificial-intelligence training servers, inference servers, GPU or custom-ASIC accelerator cards, server motherboards and rack-level power architectures. The principal product forms include analog and digital multiphase PWM controllers, smart power stages, DrMOS devices, integrated voltage regulators, point-of-load DC-DC converters, hot-swap controllers, electronic fuses, power-path controllers, PMBus-compatible digital power controllers, power sequencers and monitors, current-sensing ICs, isolated gate drivers, and integrated power ICs used in server power-supply units, battery-backup units and intermediate-bus converters. Key performance requirements include high output-current capability, rapid transient response, conversion efficiency, power density, telemetry accuracy, scalable phase control, processor-platform compatibility, thermal performance and system-level reliability. The research scope focuses on the power-management semiconductor chain extending from the server power input and board-level distribution network to the final voltage rails supplying AI processors, CPUs, high-bandwidth memory, networking devices, storage components and other computational loads.

AI Server Analog ICs should be viewed as an application-defined semiconductor

segment created by the rapid increase in processor power, transient current and rack-level power density rather than as a simple extension of conventional server PMIC demand. AI GPUs, custom accelerators and high-bandwidth memory require multiple low-voltage, high-current rails that must respond rapidly to highly variable computational workloads. As a result, multiphase controllers, smart power stages, DrMOS devices, integrated voltage regulators, point-of-load converters and precision power-monitoring ICs increasingly influence achievable computing performance, energy efficiency and system reliability. The appropriate market boundary therefore covers the control, conversion, protection, sequencing and monitoring semiconductor chain between the server power input and the final computational load. It should not combine all analog ICs or all power semiconductors into a single category.

The global supply structure consists of several distinct layers. Large diversified analog and power-semiconductor companies offer broad portfolios spanning input protection, digital control, voltage regulation, current sensing and high-voltage power conversion. Specialist server-power suppliers concentrate on multiphase regulation, smart power stages and processor-specific Vcore solutions, while Taiwanese companies retain deep experience in PC, GPU and motherboard power architectures. Mainland Chinese entrants are extending capabilities developed in consumer charging, industrial power and general-purpose DC-DC products into server DrMOS, digital multiphase control, hot-swap protection and 48-volt conversion. Nevertheless, the number of companies with general power-management products is substantially larger than the number with confirmed AI-server production business. Qualification cycles, proprietary processor power protocols, transient-performance requirements, packaging know-how and hyperscale-customer reliability standards continue to limit rapid substitution.

This report studies the global AI Server Analog IC production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global AI Server Analog IC total production and demand, 2021-2032, (Million Units)
Global AI Server Analog IC total production value, 2021-2032, (USD Million)

Global AI Server Analog IC Supply, Demand and Key Producers, 2026-2032

Global AI Server Analog IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global AI Server Analog IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: AI Server Analog IC domestic production, consumption, key domestic manufacturers and share

Global AI Server Analog IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global AI Server Analog IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global AI Server Analog IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global AI Server Analog 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 Monolithic Power Systems, Infineon Technologies, Texas Instruments, Renesas Electronics, Analog Devices, Silergy, Richtek, uPI Semiconductor, Alpha and Omega Semiconductor, Vishay Intertechnology, 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 AI Server Analog 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 AI Server Analog IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Analog IC Market, Segmentation by Type:

PMIC

Retimer

BMC

Others

Global AI Server Analog IC Market, Segmentation by Voltage:

12 V Architecture

48 V Architecture

Global AI Server Analog IC Market, Segmentation by Powered Load:

GPU Power

CPU Power

Global AI Server Analog IC Market, Segmentation by Application:

AI Training Servers

AI Inference Servers

Others

Companies Profiled:

Monolithic Power Systems

Infineon Technologies

Texas Instruments

Renesas Electronics

Analog Devices

Silergy

Richtek

uPI Semiconductor

Alpha and Omega Semiconductor

Vishay Intertechnology

onsemi

STMicroelectronics

Microchip Technology

MaxLinear

ROHM

Power Integrations

Navitas Semiconductor

NXP Semiconductors

Diodes Incorporated

ANPEC Electronics

JoulWatt Technology

Southchip Semiconductor

China Resources Microelectronics

Bright Power Semiconductor

Chipown Micro-electronics

Hynetek Semiconductor

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World AI Server Analog IC Demand (2021-2032)
- 2.2 World AI Server Analog IC Consumption by Region
 - 2.2.1 World AI Server Analog IC Consumption by Region (2021-2026)
 - 2.2.2 World AI Server Analog IC Consumption Forecast by Region (2027-2032)
- 2.3 United States AI Server Analog IC Consumption (2021-2032)
- 2.4 China AI Server Analog IC Consumption (2021-2032)
- 2.5 Europe AI Server Analog IC Consumption (2021-2032)
- 2.6 Japan AI Server Analog IC Consumption (2021-2032)
- 2.7 South Korea AI Server Analog IC Consumption (2021-2032)
- 2.8 ASEAN AI Server Analog IC Consumption (2021-2032)
- 2.9 India AI Server Analog IC Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World AI Server Analog IC Production Value by Manufacturer (2021-2026)
- 3.2 World AI Server Analog IC Production by Manufacturer (2021-2026)
- 3.3 World AI Server Analog IC Average Price by Manufacturer (2021-2026)
- 3.4 AI Server Analog IC Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global AI Server Analog IC Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for AI Server Analog IC in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for AI Server Analog IC in 2025
- 3.6 AI Server Analog IC Market: Overall Company Footprint Analysis
 - 3.6.1 AI Server Analog IC Market: Region Footprint
 - 3.6.2 AI Server Analog IC Market: Company Product Type Footprint
 - 3.6.3 AI Server Analog IC Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: AI Server Analog IC Production Value Comparison
 - 4.1.1 United States VS China: AI Server Analog IC Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: AI Server Analog IC Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: AI Server Analog IC Production Comparison
 - 4.2.1 United States VS China: AI Server Analog IC Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: AI Server Analog IC Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: AI Server Analog IC Consumption Comparison
 - 4.3.1 United States VS China: AI Server Analog IC Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: AI Server Analog IC Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based AI Server Analog IC Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based AI Server Analog IC Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers AI Server Analog IC Production Value (2021-2026)

4.4.3 United States Based Manufacturers AI Server Analog IC Production (2021-2026)

4.5 China Based AI Server Analog IC Manufacturers and Market Share

4.5.1 China Based AI Server Analog IC Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers AI Server Analog IC Production Value (2021-2026)

4.5.3 China Based Manufacturers AI Server Analog IC Production (2021-2026)

4.6 Rest of World Based AI Server Analog IC Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based AI Server Analog IC Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers AI Server Analog IC Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers AI Server Analog IC Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World AI Server Analog IC Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 PMIC

5.2.2 Retimer

5.2.3 BMC

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World AI Server Analog IC Production by Type (2021-2032)

5.3.2 World AI Server Analog IC Production Value by Type (2021-2032)

5.3.3 World AI Server Analog IC Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE

6.1 World AI Server Analog IC Market Size Overview by Voltage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Voltage

6.2.1 12 V Architecture

6.2.2 48 V Architecture

6.3 Market Segment by Voltage

6.3.1 World AI Server Analog IC Production by Voltage (2021-2032)

6.3.2 World AI Server Analog IC Production Value by Voltage (2021-2032)

6.3.3 World AI Server Analog IC Average Price by Voltage (2021-2032)

7 MARKET ANALYSIS BY POWERED LOAD

7.1 World AI Server Analog IC Market Size Overview by Powered Load: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Powered Load

7.2.1 GPU Power

7.2.2 CPU Power

7.3 Market Segment by Powered Load

7.3.1 World AI Server Analog IC Production by Powered Load (2021-2032)

7.3.2 World AI Server Analog IC Production Value by Powered Load (2021-2032)

7.3.3 World AI Server Analog IC Average Price by Powered Load (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World AI Server Analog IC Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 AI Training Servers

8.2.2 AI Inference Servers

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World AI Server Analog IC Production by Application (2021-2032)

8.3.2 World AI Server Analog IC Production Value by Application (2021-2032)

8.3.3 World AI Server Analog IC Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Monolithic Power Systems

9.1.1 Monolithic Power Systems Details

9.1.2 Monolithic Power Systems Major Business

9.1.3 Monolithic Power Systems AI Server Analog IC Product and Services

9.1.4 Monolithic Power Systems AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Monolithic Power Systems Recent Developments/Updates

9.1.6 Monolithic Power Systems Competitive Strengths & Weaknesses

9.2 Infineon Technologies

- 9.2.1 Infineon Technologies Details
- 9.2.2 Infineon Technologies Major Business
- 9.2.3 Infineon Technologies AI Server Analog IC Product and Services
- 9.2.4 Infineon Technologies AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Infineon Technologies Recent Developments/Updates
- 9.2.6 Infineon Technologies Competitive Strengths & Weaknesses
- 9.3 Texas Instruments
 - 9.3.1 Texas Instruments Details
 - 9.3.2 Texas Instruments Major Business
 - 9.3.3 Texas Instruments AI Server Analog IC Product and Services
 - 9.3.4 Texas Instruments AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Texas Instruments Recent Developments/Updates
 - 9.3.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.4 Renesas Electronics
 - 9.4.1 Renesas Electronics Details
 - 9.4.2 Renesas Electronics Major Business
 - 9.4.3 Renesas Electronics AI Server Analog IC Product and Services
 - 9.4.4 Renesas Electronics AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Renesas Electronics Recent Developments/Updates
 - 9.4.6 Renesas Electronics Competitive Strengths & Weaknesses
- 9.5 Analog Devices
 - 9.5.1 Analog Devices Details
 - 9.5.2 Analog Devices Major Business
 - 9.5.3 Analog Devices AI Server Analog IC Product and Services
 - 9.5.4 Analog Devices AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Analog Devices Recent Developments/Updates
 - 9.5.6 Analog Devices Competitive Strengths & Weaknesses
- 9.6 Silergy
 - 9.6.1 Silergy Details
 - 9.6.2 Silergy Major Business
 - 9.6.3 Silergy AI Server Analog IC Product and Services
 - 9.6.4 Silergy AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Silergy Recent Developments/Updates
 - 9.6.6 Silergy Competitive Strengths & Weaknesses

9.7 Richtek

9.7.1 Richtek Details

9.7.2 Richtek Major Business

9.7.3 Richtek AI Server Analog IC Product and Services

9.7.4 Richtek AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Richtek Recent Developments/Updates

9.7.6 Richtek Competitive Strengths & Weaknesses

9.8 uPI Semiconductor

9.8.1 uPI Semiconductor Details

9.8.2 uPI Semiconductor Major Business

9.8.3 uPI Semiconductor AI Server Analog IC Product and Services

9.8.4 uPI Semiconductor AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 uPI Semiconductor Recent Developments/Updates

9.8.6 uPI Semiconductor Competitive Strengths & Weaknesses

9.9 Alpha and Omega Semiconductor

9.9.1 Alpha and Omega Semiconductor Details

9.9.2 Alpha and Omega Semiconductor Major Business

9.9.3 Alpha and Omega Semiconductor AI Server Analog IC Product and Services

9.9.4 Alpha and Omega Semiconductor AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Alpha and Omega Semiconductor Recent Developments/Updates

9.9.6 Alpha and Omega Semiconductor Competitive Strengths & Weaknesses

9.10 Vishay Intertechnology

9.10.1 Vishay Intertechnology Details

9.10.2 Vishay Intertechnology Major Business

9.10.3 Vishay Intertechnology AI Server Analog IC Product and Services

9.10.4 Vishay Intertechnology AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Vishay Intertechnology Recent Developments/Updates

9.10.6 Vishay Intertechnology Competitive Strengths & Weaknesses

9.11 onsemi

9.11.1 onsemi Details

9.11.2 onsemi Major Business

9.11.3 onsemi AI Server Analog IC Product and Services

9.11.4 onsemi AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 onsemi Recent Developments/Updates

- 9.11.6 onsemi Competitive Strengths & Weaknesses
- 9.12 STMicroelectronics
 - 9.12.1 STMicroelectronics Details
 - 9.12.2 STMicroelectronics Major Business
 - 9.12.3 STMicroelectronics AI Server Analog IC Product and Services
 - 9.12.4 STMicroelectronics AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 STMicroelectronics Recent Developments/Updates
 - 9.12.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.13 Microchip Technology
 - 9.13.1 Microchip Technology Details
 - 9.13.2 Microchip Technology Major Business
 - 9.13.3 Microchip Technology AI Server Analog IC Product and Services
 - 9.13.4 Microchip Technology AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Microchip Technology Recent Developments/Updates
 - 9.13.6 Microchip Technology Competitive Strengths & Weaknesses
- 9.14 MaxLinear
 - 9.14.1 MaxLinear Details
 - 9.14.2 MaxLinear Major Business
 - 9.14.3 MaxLinear AI Server Analog IC Product and Services
 - 9.14.4 MaxLinear AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 MaxLinear Recent Developments/Updates
 - 9.14.6 MaxLinear Competitive Strengths & Weaknesses
- 9.15 ROHM
 - 9.15.1 ROHM Details
 - 9.15.2 ROHM Major Business
 - 9.15.3 ROHM AI Server Analog IC Product and Services
 - 9.15.4 ROHM AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 ROHM Recent Developments/Updates
 - 9.15.6 ROHM Competitive Strengths & Weaknesses
- 9.16 Power Integrations
 - 9.16.1 Power Integrations Details
 - 9.16.2 Power Integrations Major Business
 - 9.16.3 Power Integrations AI Server Analog IC Product and Services
 - 9.16.4 Power Integrations AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.16.5 Power Integrations Recent Developments/Updates
- 9.16.6 Power Integrations Competitive Strengths & Weaknesses
- 9.17 Navitas Semiconductor
 - 9.17.1 Navitas Semiconductor Details
 - 9.17.2 Navitas Semiconductor Major Business
 - 9.17.3 Navitas Semiconductor AI Server Analog IC Product and Services
 - 9.17.4 Navitas Semiconductor AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Navitas Semiconductor Recent Developments/Updates
 - 9.17.6 Navitas Semiconductor Competitive Strengths & Weaknesses
- 9.18 NXP Semiconductors
 - 9.18.1 NXP Semiconductors Details
 - 9.18.2 NXP Semiconductors Major Business
 - 9.18.3 NXP Semiconductors AI Server Analog IC Product and Services
 - 9.18.4 NXP Semiconductors AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 NXP Semiconductors Recent Developments/Updates
 - 9.18.6 NXP Semiconductors Competitive Strengths & Weaknesses
- 9.19 Diodes Incorporated
 - 9.19.1 Diodes Incorporated Details
 - 9.19.2 Diodes Incorporated Major Business
 - 9.19.3 Diodes Incorporated AI Server Analog IC Product and Services
 - 9.19.4 Diodes Incorporated AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Diodes Incorporated Recent Developments/Updates
 - 9.19.6 Diodes Incorporated Competitive Strengths & Weaknesses
- 9.20 ANPEC Electronics
 - 9.20.1 ANPEC Electronics Details
 - 9.20.2 ANPEC Electronics Major Business
 - 9.20.3 ANPEC Electronics AI Server Analog IC Product and Services
 - 9.20.4 ANPEC Electronics AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 ANPEC Electronics Recent Developments/Updates
 - 9.20.6 ANPEC Electronics Competitive Strengths & Weaknesses
- 9.21 JoulWatt Technology
 - 9.21.1 JoulWatt Technology Details
 - 9.21.2 JoulWatt Technology Major Business
 - 9.21.3 JoulWatt Technology AI Server Analog IC Product and Services
 - 9.21.4 JoulWatt Technology AI Server Analog IC Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.21.5 JoulWatt Technology Recent Developments/Updates

9.21.6 JoulWatt Technology Competitive Strengths & Weaknesses

9.22 Southchip Semiconductor

9.22.1 Southchip Semiconductor Details

9.22.2 Southchip Semiconductor Major Business

9.22.3 Southchip Semiconductor AI Server Analog IC Product and Services

9.22.4 Southchip Semiconductor AI Server Analog IC Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.22.5 Southchip Semiconductor Recent Developments/Updates

9.22.6 Southchip Semiconductor Competitive Strengths & Weaknesses

9.23 China Resources Microelectronics

9.23.1 China Resources Microelectronics Details

9.23.2 China Resources Microelectronics Major Business

9.23.3 China Resources Microelectronics AI Server Analog IC Product and Services

9.23.4 China Resources Microelectronics AI Server Analog IC Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.23.5 China Resources Microelectronics Recent Developments/Updates

9.23.6 China Resources Microelectronics Competitive Strengths & Weaknesses

9.24 Bright Power Semiconductor

9.24.1 Bright Power Semiconductor Details

9.24.2 Bright Power Semiconductor Major Business

9.24.3 Bright Power Semiconductor AI Server Analog IC Product and Services

9.24.4 Bright Power Semiconductor AI Server Analog IC Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.24.5 Bright Power Semiconductor Recent Developments/Updates

9.24.6 Bright Power Semiconductor Competitive Strengths & Weaknesses

9.25 Chipown Micro-electronics

9.25.1 Chipown Micro-electronics Details

9.25.2 Chipown Micro-electronics Major Business

9.25.3 Chipown Micro-electronics AI Server Analog IC Product and Services

9.25.4 Chipown Micro-electronics AI Server Analog IC Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.25.5 Chipown Micro-electronics Recent Developments/Updates

9.25.6 Chipown Micro-electronics Competitive Strengths & Weaknesses

9.26 Hynetek Semiconductor

9.26.1 Hynetek Semiconductor Details

9.26.2 Hynetek Semiconductor Major Business

9.26.3 Hynetek Semiconductor AI Server Analog IC Product and Services

9.26.4 Hynetek Semiconductor AI Server Analog IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.26.5 Hynetek Semiconductor Recent Developments/Updates

9.26.6 Hynetek Semiconductor Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 AI Server Analog IC Industry Chain

10.2 AI Server Analog IC Upstream Analysis

10.2.1 AI Server Analog IC Core Raw Materials

10.2.2 Main Manufacturers of AI Server Analog IC Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 AI Server Analog IC Production Mode

10.6 AI Server Analog IC Procurement Model

10.7 AI Server Analog IC Industry Sales Model and Sales Channels

10.7.1 AI Server Analog IC Sales Model

10.7.2 AI Server Analog IC Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World AI Server Analog IC Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AI Server Analog IC Production Value by Region (2021-2026) & (USD Million)

Table 3. World AI Server Analog IC Production Value by Region (2027-2032) & (USD Million)

Table 4. World AI Server Analog IC Production Value Market Share by Region (2021-2026)

Table 5. World AI Server Analog IC Production Value Market Share by Region (2027-2032)

Table 6. World AI Server Analog IC Production by Region (2021-2026) & (Million Units)

Table 7. World AI Server Analog IC Production by Region (2027-2032) & (Million Units)

Table 8. World AI Server Analog IC Production Market Share by Region (2021-2026)

Table 9. World AI Server Analog IC Production Market Share by Region (2027-2032)

Table 10. World AI Server Analog IC Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World AI Server Analog IC Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. AI Server Analog IC Major Market Trends

Table 13. World AI Server Analog IC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World AI Server Analog IC Consumption by Region (2021-2026) & (Million Units)

Table 15. World AI Server Analog IC Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World AI Server Analog IC Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AI Server Analog IC Producers in 2025

Table 18. World AI Server Analog IC Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key AI Server Analog IC Producers in 2025

Table 20. World AI Server Analog IC Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global AI Server Analog IC Company Evaluation Quadrant

Table 22. World AI Server Analog IC Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and AI Server Analog IC Production Site of Key Manufacturer

Table 24. AI Server Analog IC Market: Company Product Type Footprint

Table 25. AI Server Analog IC Market: Company Product Application Footprint

Table 26. AI Server Analog IC Competitive Factors

Table 27. AI Server Analog IC New Entrant and Capacity Expansion Plans

Table 28. AI Server Analog IC Mergers & Acquisitions Activity

Table 29. United States VS China AI Server Analog IC Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AI Server Analog IC Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China AI Server Analog IC Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based AI Server Analog IC Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AI Server Analog IC Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AI Server Analog IC Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AI Server Analog IC Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers AI Server Analog IC Production Market Share (2021-2026)

Table 37. China Based AI Server Analog IC Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AI Server Analog IC Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AI Server Analog IC Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AI Server Analog IC Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers AI Server Analog IC Production Market Share (2021-2026)

Table 42. Rest of World Based AI Server Analog IC Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AI Server Analog IC Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AI Server Analog IC Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AI Server Analog IC Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers AI Server Analog IC Production Market Share (2021-2026)

Table 47. World AI Server Analog IC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World AI Server Analog IC Production by Type (2021-2026) & (Million Units)

Table 49. World AI Server Analog IC Production by Type (2027-2032) & (Million Units)

Table 50. World AI Server Analog IC Production Value by Type (2021-2026) & (USD Million)

Table 51. World AI Server Analog IC Production Value by Type (2027-2032) & (USD Million)

Table 52. World AI Server Analog IC Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World AI Server Analog IC Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World AI Server Analog IC Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 55. World AI Server Analog IC Production by Voltage (2021-2026) & (Million Units)

Table 56. World AI Server Analog IC Production by Voltage (2027-2032) & (Million Units)

Table 57. World AI Server Analog IC Production Value by Voltage (2021-2026) & (USD Million)

Table 58. World AI Server Analog IC Production Value by Voltage (2027-2032) & (USD Million)

Table 59. World AI Server Analog IC Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 60. World AI Server Analog IC Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 61. World AI Server Analog IC Production Value by Powered Load, (USD Million), 2021 & 2025 & 2032

Table 62. World AI Server Analog IC Production by Powered Load (2021-2026) & (Million Units)

Table 63. World AI Server Analog IC Production by Powered Load (2027-2032) & (Million Units)

Table 64. World AI Server Analog IC Production Value by Powered Load (2021-2026) & (USD Million)

Table 65. World AI Server Analog IC Production Value by Powered Load (2027-2032) & (USD Million)

Table 66. World AI Server Analog IC Average Price by Powered Load (2021-2026) &

(US\$/Unit)

Table 67. World AI Server Analog IC Average Price by Powered Load (2027-2032) & (US\$/Unit)

Table 68. World AI Server Analog IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World AI Server Analog IC Production by Application (2021-2026) & (Million Units)

Table 70. World AI Server Analog IC Production by Application (2027-2032) & (Million Units)

Table 71. World AI Server Analog IC Production Value by Application (2021-2026) & (USD Million)

Table 72. World AI Server Analog IC Production Value by Application (2027-2032) & (USD Million)

Table 73. World AI Server Analog IC Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World AI Server Analog IC Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Monolithic Power Systems Basic Information, Manufacturing Base and Competitors

Table 76. Monolithic Power Systems Major Business

Table 77. Monolithic Power Systems AI Server Analog IC Product and Services

Table 78. Monolithic Power Systems AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Monolithic Power Systems Recent Developments/Updates

Table 80. Monolithic Power Systems Competitive Strengths & Weaknesses

Table 81. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 82. Infineon Technologies Major Business

Table 83. Infineon Technologies AI Server Analog IC Product and Services

Table 84. Infineon Technologies AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Infineon Technologies Recent Developments/Updates

Table 86. Infineon Technologies Competitive Strengths & Weaknesses

Table 87. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 88. Texas Instruments Major Business

Table 89. Texas Instruments AI Server Analog IC Product and Services

Table 90. Texas Instruments AI Server Analog IC Production (Million Units), Price

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

Table 91. Texas Instruments Recent Developments/Updates

Table 92. Texas Instruments Competitive Strengths & Weaknesses

Table 93. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 94. Renesas Electronics Major Business

Table 95. Renesas Electronics AI Server Analog IC Product and Services

Table 96. Renesas Electronics AI Server Analog IC Production (Million Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 97. Renesas Electronics Recent Developments/Updates

Table 98. Renesas Electronics Competitive Strengths & Weaknesses

Table 99. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 100. Analog Devices Major Business

Table 101. Analog Devices AI Server Analog IC Product and Services

Table 102. Analog Devices AI Server Analog IC Production (Million Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 103. Analog Devices Recent Developments/Updates

Table 104. Analog Devices Competitive Strengths & Weaknesses

Table 105. Silergy Basic Information, Manufacturing Base and Competitors

Table 106. Silergy Major Business

Table 107. Silergy AI Server Analog IC Product and Services

Table 108. Silergy AI Server Analog IC Production (Million Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Silergy Recent Developments/Updates

Table 110. Silergy Competitive Strengths & Weaknesses

Table 111. Richtek Basic Information, Manufacturing Base and Competitors

Table 112. Richtek Major Business

Table 113. Richtek AI Server Analog IC Product and Services

Table 114. Richtek AI Server Analog IC Production (Million Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Richtek Recent Developments/Updates

Table 116. Richtek Competitive Strengths & Weaknesses

Table 117. uPI Semiconductor Basic Information, Manufacturing Base and Competitors

Table 118. uPI Semiconductor Major Business

Table 119. uPI Semiconductor AI Server Analog IC Product and Services

Table 120. uPI Semiconductor AI Server Analog IC Production (Million Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 121. uPI Semiconductor Recent Developments/Updates

Table 122. uPI Semiconductor Competitive Strengths & Weaknesses

Table 123. Alpha and Omega Semiconductor Basic Information, Manufacturing Base and Competitors

Table 124. Alpha and Omega Semiconductor Major Business

Table 125. Alpha and Omega Semiconductor AI Server Analog IC Product and Services

Table 126. Alpha and Omega Semiconductor AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Alpha and Omega Semiconductor Recent Developments/Updates

Table 128. Alpha and Omega Semiconductor Competitive Strengths & Weaknesses

Table 129. Vishay Intertechnology Basic Information, Manufacturing Base and Competitors

Table 130. Vishay Intertechnology Major Business

Table 131. Vishay Intertechnology AI Server Analog IC Product and Services

Table 132. Vishay Intertechnology AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Vishay Intertechnology Recent Developments/Updates

Table 134. Vishay Intertechnology Competitive Strengths & Weaknesses

Table 135. onsemi Basic Information, Manufacturing Base and Competitors

Table 136. onsemi Major Business

Table 137. onsemi AI Server Analog IC Product and Services

Table 138. onsemi AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. onsemi Recent Developments/Updates

Table 140. onsemi Competitive Strengths & Weaknesses

Table 141. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 142. STMicroelectronics Major Business

Table 143. STMicroelectronics AI Server Analog IC Product and Services

Table 144. STMicroelectronics AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. STMicroelectronics Recent Developments/Updates

Table 146. STMicroelectronics Competitive Strengths & Weaknesses

Table 147. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 148. Microchip Technology Major Business

Table 149. Microchip Technology AI Server Analog IC Product and Services
Table 150. Microchip Technology AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Microchip Technology Recent Developments/Updates
Table 152. Microchip Technology Competitive Strengths & Weaknesses
Table 153. MaxLinear Basic Information, Manufacturing Base and Competitors
Table 154. MaxLinear Major Business
Table 155. MaxLinear AI Server Analog IC Product and Services
Table 156. MaxLinear AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. MaxLinear Recent Developments/Updates
Table 158. MaxLinear Competitive Strengths & Weaknesses
Table 159. ROHM Basic Information, Manufacturing Base and Competitors
Table 160. ROHM Major Business
Table 161. ROHM AI Server Analog IC Product and Services
Table 162. ROHM AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. ROHM Recent Developments/Updates
Table 164. ROHM Competitive Strengths & Weaknesses
Table 165. Power Integrations Basic Information, Manufacturing Base and Competitors
Table 166. Power Integrations Major Business
Table 167. Power Integrations AI Server Analog IC Product and Services
Table 168. Power Integrations AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Power Integrations Recent Developments/Updates
Table 170. Power Integrations Competitive Strengths & Weaknesses
Table 171. Navitas Semiconductor Basic Information, Manufacturing Base and Competitors
Table 172. Navitas Semiconductor Major Business
Table 173. Navitas Semiconductor AI Server Analog IC Product and Services
Table 174. Navitas Semiconductor AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Navitas Semiconductor Recent Developments/Updates
Table 176. Navitas Semiconductor Competitive Strengths & Weaknesses
Table 177. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 178. NXP Semiconductors Major Business

Table 179. NXP Semiconductors AI Server Analog IC Product and Services

Table 180. NXP Semiconductors AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. NXP Semiconductors Recent Developments/Updates

Table 182. NXP Semiconductors Competitive Strengths & Weaknesses

Table 183. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 184. Diodes Incorporated Major Business

Table 185. Diodes Incorporated AI Server Analog IC Product and Services

Table 186. Diodes Incorporated AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Diodes Incorporated Recent Developments/Updates

Table 188. Diodes Incorporated Competitive Strengths & Weaknesses

Table 189. ANPEC Electronics Basic Information, Manufacturing Base and Competitors

Table 190. ANPEC Electronics Major Business

Table 191. ANPEC Electronics AI Server Analog IC Product and Services

Table 192. ANPEC Electronics AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. ANPEC Electronics Recent Developments/Updates

Table 194. ANPEC Electronics Competitive Strengths & Weaknesses

Table 195. JoulWatt Technology Basic Information, Manufacturing Base and Competitors

Table 196. JoulWatt Technology Major Business

Table 197. JoulWatt Technology AI Server Analog IC Product and Services

Table 198. JoulWatt Technology AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. JoulWatt Technology Recent Developments/Updates

Table 200. JoulWatt Technology Competitive Strengths & Weaknesses

Table 201. Southchip Semiconductor Basic Information, Manufacturing Base and Competitors

Table 202. Southchip Semiconductor Major Business

Table 203. Southchip Semiconductor AI Server Analog IC Product and Services

Table 204. Southchip Semiconductor AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 205. Southchip Semiconductor Recent Developments/Updates

Table 206. Southchip Semiconductor Competitive Strengths & Weaknesses

Table 207. China Resources Microelectronics Basic Information, Manufacturing Base and Competitors

Table 208. China Resources Microelectronics Major Business

Table 209. China Resources Microelectronics AI Server Analog IC Product and Services

Table 210. China Resources Microelectronics AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. China Resources Microelectronics Recent Developments/Updates

Table 212. China Resources Microelectronics Competitive Strengths & Weaknesses

Table 213. Bright Power Semiconductor Basic Information, Manufacturing Base and Competitors

Table 214. Bright Power Semiconductor Major Business

Table 215. Bright Power Semiconductor AI Server Analog IC Product and Services

Table 216. Bright Power Semiconductor AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Bright Power Semiconductor Recent Developments/Updates

Table 218. Bright Power Semiconductor Competitive Strengths & Weaknesses

Table 219. Chipown Micro-electronics Basic Information, Manufacturing Base and Competitors

Table 220. Chipown Micro-electronics Major Business

Table 221. Chipown Micro-electronics AI Server Analog IC Product and Services

Table 222. Chipown Micro-electronics AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Chipown Micro-electronics Recent Developments/Updates

Table 224. Chipown Micro-electronics Competitive Strengths & Weaknesses

Table 225. Hynetek Semiconductor Basic Information, Manufacturing Base and Competitors

Table 226. Hynetek Semiconductor Major Business

Table 227. Hynetek Semiconductor AI Server Analog IC Product and Services

Table 228. Hynetek Semiconductor AI Server Analog IC Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Hynetek Semiconductor Recent Developments/Updates

Table 230. Hynetek Semiconductor Competitive Strengths & Weaknesses

Table 231. Global Key Players of AI Server Analog IC Upstream (Raw Materials)

Table 232. Global AI Server Analog IC Typical Customers

Table 233. AI Server Analog IC Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. AI Server Analog IC Picture

Figure 2. World AI Server Analog IC Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AI Server Analog IC Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World AI Server Analog IC Production (2021-2032) & (Million Units)

Figure 5. World AI Server Analog IC Average Price (2021-2032) & (US\$/Unit)

Figure 6. World AI Server Analog IC Production Value Market Share by Region (2021-2032)

Figure 7. World AI Server Analog IC Production Market Share by Region (2021-2032)

Figure 8. North America AI Server Analog IC Production (2021-2032) & (Million Units)

Figure 9. Europe AI Server Analog IC Production (2021-2032) & (Million Units)

Figure 10. China AI Server Analog IC Production (2021-2032) & (Million Units)

Figure 11. Japan AI Server Analog IC Production (2021-2032) & (Million Units)

Figure 12. South Korea AI Server Analog IC Production (2021-2032) & (Million Units)

Figure 13. AI Server Analog IC Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 16. World AI Server Analog IC Consumption Market Share by Region (2021-2032)

Figure 17. United States AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 18. China AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 19. Europe AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 20. Japan AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 21. South Korea AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 23. India AI Server Analog IC Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of AI Server Analog IC by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for AI Server Analog IC Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for AI Server Analog IC Markets in 2025

Figure 27. United States VS China: AI Server Analog IC Production Value Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AI Server Analog IC Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: AI Server Analog IC Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers AI Server Analog IC Production Market Share 2025

Figure 31. China Based Manufacturers AI Server Analog IC Production Market Share 2025

Figure 32. Rest of World Based Manufacturers AI Server Analog IC Production Market Share 2025

Figure 33. World AI Server Analog IC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World AI Server Analog IC Production Value Market Share by Type in 2025

Figure 35. PMIC

Figure 36. Retimer

Figure 37. BMC

Figure 38. Others

Figure 39. World AI Server Analog IC Production Market Share by Type (2021-2032)

Figure 40. World AI Server Analog IC Production Value Market Share by Type (2021-2032)

Figure 41. World AI Server Analog IC Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World AI Server Analog IC Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 43. World AI Server Analog IC Production Value Market Share by Voltage in 2025

Figure 44. 12 V Architecture

Figure 45. 48 V Architecture

Figure 46. World AI Server Analog IC Production Market Share by Voltage (2021-2032)

Figure 47. World AI Server Analog IC Production Value Market Share by Voltage (2021-2032)

Figure 48. World AI Server Analog IC Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 49. World AI Server Analog IC Production Value by Powered Load, (USD Million), 2021 & 2025 & 2032

Figure 50. World AI Server Analog IC Production Value Market Share by Powered Load in 2025

Figure 51. GPU Power

Figure 52. CPU Power

Figure 53. World AI Server Analog IC Production Market Share by Powered Load (2021-2032)

Figure 54. World AI Server Analog IC Production Value Market Share by Powered Load (2021-2032)

Figure 55. World AI Server Analog IC Average Price by Powered Load (2021-2032) & (US\$/Unit)

Figure 56. World AI Server Analog IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World AI Server Analog IC Production Value Market Share by Application in 2025

Figure 58. AI Training Servers

Figure 59. AI Inference Servers

Figure 60. Others

Figure 61. World AI Server Analog IC Production Market Share by Application (2021-2032)

Figure 62. World AI Server Analog IC Production Value Market Share by Application (2021-2032)

Figure 63. World AI Server Analog IC Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. AI Server Analog IC Industry Chain

Figure 65. AI Server Analog IC Procurement Model

Figure 66. AI Server Analog IC Sales Model

Figure 67. AI Server Analog IC Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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