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Global Industrial Edge AI Vision Chip Market Growth 2026-2032

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Abstracts

The global Industrial Edge AI Vision Chip market size is predicted to grow from US$ 4060 million in 2025 to US$ 14117 million in 2032; it is expected to grow at a CAGR of 19.2% from 2026 to 2032.

Industrial Edge AI Vision Chip refers to semiconductor processors designed to execute visual sensing, image processing, artificial intelligence inference and real-time decision-making locally within industrial equipment, machine-vision systems, smart cameras, robots and other edge devices. The market primarily covers integrated AI vision SoCs combining CPUs, NPUs or VPUs, image signal processors and video engines; dedicated edge AI accelerators; AI-enabled MPUs and MCUs; adaptive AI SoCs; and intelligent vision sensors with on-chip inference capability. Key product parameters include AI throughput measured in TOPS or GOPS at specified numerical precision, energy efficiency, camera-input capacity, ISP performance, image resolution and frame rate, memory bandwidth, industrial operating-temperature range, real-time latency and software-model compatibility. Industrial Edge AI Vision Chip products enable local object detection, visual inspection, image classification, robotic perception, multi-camera analytics, 3D vision, localization and related machine-vision workloads while reducing dependence on cloud processing. The research scope focuses on semiconductor value deployed in industrial manufacturing, machine vision, industrial automation, robotics, AMR/AGV platforms, intelligent industrial cameras and industrial edge visual analytics.

Key Findings

The validated core supplier universe comprises 38 manufacturers spanning multiple Industrial Edge AI Vision Chip architectures

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Asia accounted for 74% of global industrial robot installations in 2024, concentrating near-term industrial edge vision demand

Industrial vision compute spans sub-1-TOPS endpoint devices to 100-plus-TOPS robotic and multi-camera processing platforms

The market combines global compute platforms, industrial semiconductor incumbents, vision SoC specialists and dedicated AI accelerator vendors

Market Trends

Industrial Edge AI Vision Chip architectures are shifting from relatively isolated CNN accelerators toward heterogeneous computing platforms combining CPU, NPU, GPU or programmable logic, ISP, real-time control and high-speed sensor interfaces. The primary product-development objective is moving beyond peak TOPS toward balanced system performance, including multi-camera throughput, deterministic latency, energy efficiency, industrial reliability and software deployment efficiency. This direction is visible across different performance tiers: STMicroelectronics integrates a dedicated NPU and computer-vision pipeline into the STM32N6, Renesas positions RZ/V2N as a 15-TOPS vision AI MPU, Texas Instruments offers AM69A with up to 32 TOPS and support for multi-camera machine vision, while Qualcomm’s industrial IQ-9075 platform scales to 100 TOPS and up to 16 concurrent camera inputs. At the higher end, robotics and Physical AI are driving demand for visual-language models, multi-sensor fusion and increasingly complex on-device inference; NVIDIA’s 2026 Jetson Thor roadmap illustrates this transition toward compact systems capable of running advanced robotics and visual AI workloads at the edge.

Market Dynamics

Drivers

Demand growth is primarily supported by rising automation intensity, greater use of machine vision in quality control, expansion of industrial and service robotics, and the need to process increasingly large volumes of visual data close to the point of generation. Local inference reduces network bandwidth requirements and enables lower and more predictable latency for time-sensitive inspection, navigation and robotic-control workloads. The International Federation of Robotics recorded 542,000 industrial robot installations in 2024, with annual installations remaining above half a million units for a fourth consecutive year; professional service robots are also expanding,

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particularly in transportation and logistics. At semiconductor level, integration of NPUs, ISPs, camera interfaces, security blocks and real-time processing into industrial processors is lowering system integration complexity, while long product-lifecycle support and industrial-temperature operation are improving the suitability of advanced AI processors for factory deployment.

Restraints

Industrial adoption remains constrained by long qualification and design-in cycles, fragmented AI software environments, model-conversion requirements and the difficulty of simultaneously meeting performance, power, thermal and reliability targets. Unlike many consumer edge products, industrial equipment may remain in production or service for many years, making software maintenance, component longevity and backward compatibility material purchasing criteria. Higher-compute products can also require more complex memory, power management, thermal design and multilayer PCB architectures, increasing total system cost even as unit AI-compute economics improve. The wide variation in how suppliers report TOPS, numerical precision and sparsity further complicates direct product comparisons. For many fixed machine-vision tasks, conventional CPUs, DSPs or FPGA-based pipelines can remain economically adequate, limiting the speed at which dedicated AI acceleration penetrates cost-sensitive applications.

Opportunities

The most attractive opportunities are emerging where visual intelligence is moving from fixed inspection toward autonomous perception and action. Robotic manipulation, AMR/AGV perception, 3D vision, multi-camera smart machines and Physical AI require substantially greater local processing capability than traditional rule-based machine vision, creating opportunities for higher-value heterogeneous SoCs and dedicated accelerators. At the opposite end of the performance spectrum, AI MCUs and intelligent vision sensors are enabling inference directly at sensor or endpoint level, creating new designs in compact industrial sensors and low-power smart cameras. The expansion of AI into manufacturing also opens opportunities for architectures that combine machine vision with anomaly detection, predictive analytics and multimodal models. Product vendors that can provide mature model deployment tools, camera pipelines, industrial communications and long-term software support are positioned to capture more value than suppliers competing primarily on peak compute specifications.

Challenges

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The industry faces rapid architecture evolution and significant commercial uncertainty regarding where AI workloads will ultimately reside within industrial systems. High-performance heterogeneous SoCs are moving downward into workloads historically served by standalone accelerators, while increasingly capable AI MCUs and integrated vision SoCs are moving upward from low-cost endpoint applications; this creates competitive pressure on mid-range standalone NPUs and VPUs. AI model evolution also shortens the effective performance life of hardware architectures, requiring suppliers to support new operators, quantization formats and transformer-class workloads after silicon launch. Industrial security, functional safety and regulatory compliance are becoming more important as AI becomes involved in machine decisions. In Europe, the AI Act introduces stricter requirements for qualifying high-risk AI systems, increasing the importance of risk management, documentation, robustness and lifecycle governance for relevant industrial applications.

Industry Chain Analysis

The Industrial Edge AI Vision Chip industry chain begins with semiconductor IP, EDA tools, processor and accelerator architectures, image-sensor interfaces, wafer manufacturing, specialty and advanced process technologies, semiconductor packaging and testing. Depending on product architecture, key technical inputs may also include high-speed memory interfaces, camera connectivity, industrial Ethernet, security IP and real-time processing subsystems. Midstream value creation is concentrated in chip architecture design, NPU/VPU implementation, ISP development, system-level integration, physical design, silicon validation and the software toolchain required to convert and deploy neural-network models. Fabless suppliers rely heavily on external foundries and OSAT providers, while IDM and fab-lite suppliers combine internal manufacturing capability with outsourced capacity.

Downstream, chips are integrated into industrial cameras, smart vision sensors, machine-vision controllers, robots, AMRs/AGVs, industrial computers and edge gateways before deployment in automated production and logistics environments. Semiconductor value is increasingly determined by more than die performance: camera compatibility, SDK maturity, model support, real-time interfaces, cybersecurity, functional reliability and long product availability materially influence design-in decisions. Manufacturing cost is sensitive to process node, die size, yield, packaging and test complexity, while profitability is influenced by shipment scale, reuse of common silicon across applications and the ability to monetize differentiated software and ecosystem support. As industrial customers increasingly demand pre-integrated AI capabilities, a larger share of competitive differentiation is migrating from individual compute blocks

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toward complete silicon-plus-software platforms.

Segment Insights

By product architecture, integrated AI Vision SoCs and NPU/ISP-based devices represent the largest portion of the modeled market, accounting for approximately 40% of semiconductor revenue under the study's narrow scope. These products benefit from combining image acquisition, ISP processing, AI inference and system control in a compact architecture, making them particularly suitable for smart cameras, embedded machine vision and cost-sensitive industrial endpoints. High-performance embedded and robotic AI SoCs represent roughly 35% and capture a higher semiconductor value per deployed system because they serve multi-camera perception, sensor fusion and more complex robotic workloads. Dedicated AI accelerators account for a share in the mid-teens, while AI MCUs and intelligent vision sensors currently represent a low-single-digit portion but provide an important route for inference to migrate closer to the sensor.

From a performance perspective, the market is increasingly polarized. Low-power endpoints prioritize energy efficiency, compact form factor and integrated camera processing, whereas robotics and centralized edge nodes demand tens to more than one hundred TOPS, larger memory capacity and heterogeneous processing. The middle of the market remains highly competitive because integrated SoCs are continuously adding NPU capability while dedicated accelerators seek to defend their position through higher performance per watt and broader model support. Adaptive AI architectures remain relevant in applications requiring deterministic processing, configurable sensor interfaces and long product lifecycles, particularly in machine vision and industrial automation.

Downstream Market Opportunities

Electronics and semiconductor manufacturing remain important Industrial Edge AI Vision Chip application markets because inspection density, precision requirements and manufacturing throughput create sustained demand for local visual processing. Automotive manufacturing and machinery processing provide additional opportunities in assembly verification, surface inspection, robotic guidance and production automation. Logistics and warehousing are becoming increasingly attractive as mobile robots and autonomous material-handling systems require continuous visual perception, localization and obstacle detection; transportation and logistics represented more than half of professional service robots sold in 2024 according to the International Federation of Robotics. Beyond these established markets, opportunities are expanding in food and

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beverage production, pharmaceutical and medical manufacturing, energy inspection and other industrial environments where AI vision can reduce manual inspection intensity and enable more flexible automation.

Regional Insights

Asia is the largest demand center for industrial automation-related vision computing. The International Federation of Robotics reported that Asia represented 74% of global industrial robot installations in 2024, compared with 16% for Europe and 9% for the Americas. This concentration supports substantial demand for machine-vision processing in China, Japan, South Korea and other Asian manufacturing centers. China and Taiwan also have a relatively deep supplier base in AI vision SoCs, AI ISP architectures and high-volume edge processors, creating strong interaction between local semiconductor supply and manufacturing automation demand. Japan retains advantages in industrial embedded processors and image-sensing technologies, while South Korea is developing a growing specialist NPU supplier group.

North America has a different competitive profile, with particularly strong positions in high-performance heterogeneous compute, robotics platforms, FPGAs and dedicated AI accelerators. Europe is characterized by industrial semiconductor incumbents with established positions in MCU, MPU, FPGA and embedded processing, emphasizing reliability, power efficiency and long product lifecycles. Regional market opportunities therefore differ: Asia offers scale and high equipment deployment density; North America is more exposed to high-performance robotics and Physical AI development; Europe places greater emphasis on industrial integration, reliability, safety and regulatory compliance. These differences are expected to sustain a geographically diversified supplier structure rather than a single dominant regional technology model.

Competitive Landscape Analysis

The Industrial Edge AI Vision Chip market has a multi-layer competitive structure rather than a single homogeneous peer group. The validated Core Formal List contains 38 manufacturers. Large global computing-platform suppliers such as NVIDIA, Qualcomm, AMD and Intel compete primarily through heterogeneous compute capacity, software ecosystems and the ability to support increasingly complex robotics and visual AI workloads. Established industrial semiconductor suppliers including Texas Instruments, NXP, STMicroelectronics, Renesas, Infineon, Analog Devices, Microchip and Altera compete through industrial customer relationships, reliability, real-time processing, programmable architectures and product-lifecycle support. Vision-focused SoC

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suppliers compete around ISP integration, camera pipelines, cost efficiency and high-volume endpoint deployment, while dedicated AI accelerator companies seek differentiation through TOPS per watt, compact deployment and optimized neural-network execution. Competitive boundaries are becoming less distinct as platform processors integrate stronger NPUs, FPGAs add mature AI inference stacks and low-power MCUs introduce dedicated neural accelerators. Software development environments, model compatibility, multi-camera support, security and long-term availability are consequently becoming more important sources of differentiation than peak compute alone. Consolidation is also likely to remain strategically relevant as larger semiconductor groups seek to strengthen edge-AI capabilities and shorten time to market through technology acquisition.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Industrial Edge AI Vision Chip 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 Industrial Edge AI Vision Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Industrial Edge AI Vision Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial Edge AI Vision Chip 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 Industrial Edge AI Vision Chip.

This report presents a comprehensive overview, market shares, and growth

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opportunities of Industrial Edge AI Vision Chip market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Integrated AI Vision SoC

Dedicated AI Accelerator

Other

Segmentation by AI Compute Performance:

<1 TOPS

1–5 TOPS

>5–25 TOPS

>25–100 TOPS

>100 TOPS

Segmentation by Power Consumption:

?1 W

>1–5 W

>5–15 W

>15–30 W

>30 W

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Segmentation by Camera Input Capacity:

Single-camera

2–4 Cameras

5–8 Cameras

>8 Cameras

Segmentation by Application:

Electronics & Semiconductor Manufacturing

Automotive Manufacturing

Logistics & Warehousing

Pharmaceutical & Medical Manufacturing

Energy & Utilities

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

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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.

NVIDIA Corporation

Huawei Investment & Holding Co., Ltd.

Sony Group Corporation

Intel Corporation

Qualcomm Incorporated

Advanced Micro Devices, Inc.

MediaTek Inc.

Texas Instruments Incorporated

Infineon Technologies AG

NXP Semiconductors N.V.

STMicroelectronics N.V.

Analog Devices, Inc.

Renesas Electronics Corporation

Microchip Technology Incorporated

Altera Corporation

Ambarella, Inc.

Synaptics Incorporated

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Rockchip Electronics Co., Ltd.

Hailo Technologies Ltd.

Lattice Semiconductor Corporation

Nuvoton Technology Corporation

NOVATEK MICROELECTRONICS CORP.

SigmaStar Technology Ltd.

Axera Semiconductor Co., Ltd.

SiMa Technologies, Inc.

Axelera AI B.V.

Kneron, Inc.

DEEPX Co., Ltd.

Allwinner Technology Co., Ltd.

Canaan Inc.

EdgeCortix Inc.

Alif Semiconductor, Inc.

Himax Technologies, Inc.

Inuitive Ltd.

Mobilint, Inc.

MemryX Inc.

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Mythic, Inc.

Ingenic Semiconductor CO., LTD

Key Questions Addressed in this Report

What is the 10-year outlook for the global Industrial Edge AI Vision Chip market?

What factors are driving Industrial Edge AI Vision Chip market growth, globally and by region?

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

How do Industrial Edge AI Vision Chip market opportunities vary by end market size?

How does Industrial Edge AI Vision Chip 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 Industrial Edge AI Vision Chip Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Industrial Edge AI Vision Chip by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Industrial Edge AI Vision Chip by Country/Region, 2021, 2025 & 2032
2.2 Industrial Edge AI Vision Chip Segment by Type
  2.2.1 Integrated AI Vision SoC
  2.2.2 Dedicated AI Accelerator
  2.2.3 Other
  2.2.4 Industrial Edge AI Vision Chip Sales by Type
    2.2.4.1 Global Industrial Edge AI Vision Chip Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Industrial Edge AI Vision Chip Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Industrial Edge AI Vision Chip Sale Price by Type (2021-2026)
2.3 Industrial Edge AI Vision Chip Segment by AI Compute Performance
  2.3.1 <1 TOPS
  2.3.2 1–5 TOPS
  2.3.3 >5–25 TOPS
  2.3.4 >25–100 TOPS
  2.3.5 >100 TOPS
  2.3.6 Industrial Edge AI Vision Chip Sales by AI Compute Performance
    2.3.6.1 Global Industrial Edge AI Vision Chip Sales Market Share by AI Compute

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Performance (2021-2026)
2.3.6.2 Global Industrial Edge AI Vision Chip Revenue and Market Share by AI Compute Performance (2021-2026)
2.3.6.3 Global Industrial Edge AI Vision Chip Sale Price by AI Compute Performance (2021-2026)
2.4 Industrial Edge AI Vision Chip Segment by Power Consumption
2.4.1 ?1 W
2.4.2 >1–5 W
2.4.3 >5–15 W
2.4.4 >15–30 W
2.4.5 >30 W
2.4.6 Industrial Edge AI Vision Chip Sales by Power Consumption
2.4.6.1 Global Industrial Edge AI Vision Chip Sales Market Share by Power Consumption (2021-2026)
2.4.6.2 Global Industrial Edge AI Vision Chip Revenue and Market Share by Power Consumption (2021-2026)
2.4.6.3 Global Industrial Edge AI Vision Chip Sale Price by Power Consumption (2021-2026)
2.5 Industrial Edge AI Vision Chip Segment by Camera Input Capacity
2.5.1 Single-camera
2.5.2 2–4 Cameras
2.5.3 5–8 Cameras
2.5.4 >8 Cameras
2.5.5 Industrial Edge AI Vision Chip Sales by Camera Input Capacity
2.5.5.1 Global Industrial Edge AI Vision Chip Sales Market Share by Camera Input Capacity (2021-2026)
2.5.5.2 Global Industrial Edge AI Vision Chip Revenue and Market Share by Camera Input Capacity (2021-2026)
2.5.5.3 Global Industrial Edge AI Vision Chip Sale Price by Camera Input Capacity (2021-2026)
2.6 Industrial Edge AI Vision Chip Segment by Application
2.6.1 Electronics & Semiconductor Manufacturing
2.6.2 Automotive Manufacturing
2.6.3 Logistics & Warehousing
2.6.4 Pharmaceutical & Medical Manufacturing
2.6.5 Energy & Utilities
2.6.6 Other
2.6.7 Industrial Edge AI Vision Chip Sales by Application
2.6.7.1 Global Industrial Edge AI Vision Chip Sale Market Share by Application

+357 96 030922
info@marketpublishers.com

(2021-2026)
2.6.7.2 Global Industrial Edge AI Vision Chip Revenue and Market Share by Application (2021-2026)
2.6.7.3 Global Industrial Edge AI Vision Chip Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Industrial Edge AI Vision Chip Breakdown Data by Company
3.1.1 Global Industrial Edge AI Vision Chip Annual Sales by Company (2021-2026)
3.1.2 Global Industrial Edge AI Vision Chip Sales Market Share by Company (2021-2026)
3.2 Global Industrial Edge AI Vision Chip Annual Revenue by Company (2021-2026)
3.2.1 Global Industrial Edge AI Vision Chip Revenue by Company (2021-2026)
3.2.2 Global Industrial Edge AI Vision Chip Revenue Market Share by Company (2021-2026)
3.3 Global Industrial Edge AI Vision Chip Sale Price by Company
3.4 Key Manufacturers Industrial Edge AI Vision Chip Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Industrial Edge AI Vision Chip Product Location Distribution
3.4.2 Players Industrial Edge AI Vision Chip 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 INDUSTRIAL EDGE AI VISION CHIP BY GEOGRAPHIC REGION

4.1 World Historic Industrial Edge AI Vision Chip Market Size by Geographic Region (2021-2026)
4.1.1 Global Industrial Edge AI Vision Chip Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Industrial Edge AI Vision Chip Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Industrial Edge AI Vision Chip Market Size by Country/Region (2021-2026)
4.2.1 Global Industrial Edge AI Vision Chip Annual Sales by Country/Region (2021-2026)

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info@marketpublishers.com

4.2.2 Global Industrial Edge AI Vision Chip Annual Revenue by Country/Region (2021-2026)
4.3 Americas Industrial Edge AI Vision Chip Sales Growth
4.4 APAC Industrial Edge AI Vision Chip Sales Growth
4.5 Europe Industrial Edge AI Vision Chip Sales Growth
4.6 Middle East & Africa Industrial Edge AI Vision Chip Sales Growth

5 AMERICAS

5.1 Americas Industrial Edge AI Vision Chip Sales by Country
5.1.1 Americas Industrial Edge AI Vision Chip Sales by Country (2021-2026)
5.1.2 Americas Industrial Edge AI Vision Chip Revenue by Country (2021-2026)
5.2 Americas Industrial Edge AI Vision Chip Sales by Type (2021-2026)
5.3 Americas Industrial Edge AI Vision Chip Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Industrial Edge AI Vision Chip Sales by Region
6.1.1 APAC Industrial Edge AI Vision Chip Sales by Region (2021-2026)
6.1.2 APAC Industrial Edge AI Vision Chip Revenue by Region (2021-2026)
6.2 APAC Industrial Edge AI Vision Chip Sales by Type (2021-2026)
6.3 APAC Industrial Edge AI Vision Chip 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 Industrial Edge AI Vision Chip by Country
7.1.1 Europe Industrial Edge AI Vision Chip Sales by Country (2021-2026)
7.1.2 Europe Industrial Edge AI Vision Chip Revenue by Country (2021-2026)

+357 96 030922
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7.2 Europe Industrial Edge AI Vision Chip Sales by Type (2021-2026)
7.3 Europe Industrial Edge AI Vision Chip Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Industrial Edge AI Vision Chip by Country
  8.1.1 Middle East & Africa Industrial Edge AI Vision Chip Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Industrial Edge AI Vision Chip Revenue by Country (2021-2026)
8.2 Middle East & Africa Industrial Edge AI Vision Chip Sales by Type (2021-2026)
8.3 Middle East & Africa Industrial Edge AI Vision Chip 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 Industrial Edge AI Vision Chip
10.3 Manufacturing Process Analysis of Industrial Edge AI Vision Chip
10.4 Industry Chain Structure of Industrial Edge AI Vision Chip

11 MARKETING, DISTRIBUTORS AND CUSTOMER

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info@marketpublishers.com

11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 Industrial Edge AI Vision Chip Distributors
11.3 Industrial Edge AI Vision Chip Customer

12 WORLD FORECAST REVIEW FOR INDUSTRIAL EDGE AI VISION CHIP BY GEOGRAPHIC REGION

12.1 Global Industrial Edge AI Vision Chip Market Size Forecast by Region
12.1.1 Global Industrial Edge AI Vision Chip Forecast by Region (2027-2032)
12.1.2 Global Industrial Edge AI Vision Chip 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 Industrial Edge AI Vision Chip Forecast by Type (2027-2032)
12.7 Global Industrial Edge AI Vision Chip Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 NVIDIA Corporation
13.1.1 NVIDIA Corporation Company Information
13.1.2 NVIDIA Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.1.3 NVIDIA Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 NVIDIA Corporation Main Business Overview
13.1.5 NVIDIA Corporation Latest Developments
13.2 Huawei Investment & Holding Co., Ltd.
13.2.1 Huawei Investment & Holding Co., Ltd. Company Information
13.2.2 Huawei Investment & Holding Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.2.3 Huawei Investment & Holding Co., Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Huawei Investment & Holding Co., Ltd. Main Business Overview
13.2.5 Huawei Investment & Holding Co., Ltd. Latest Developments
13.3 Sony Group Corporation

+357 96 030922
info@marketpublishers.com

13.3.1 Sony Group Corporation Company Information
13.3.2 Sony Group Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.3.3 Sony Group Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Sony Group Corporation Main Business Overview
13.3.5 Sony Group Corporation Latest Developments
13.4 Intel Corporation
13.4.1 Intel Corporation Company Information
13.4.2 Intel Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.4.3 Intel Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Intel Corporation Main Business Overview
13.4.5 Intel Corporation Latest Developments
13.5 Qualcomm Incorporated
13.5.1 Qualcomm Incorporated Company Information
13.5.2 Qualcomm Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.5.3 Qualcomm Incorporated Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Qualcomm Incorporated Main Business Overview
13.5.5 Qualcomm Incorporated Latest Developments
13.6 Advanced Micro Devices, Inc.
13.6.1 Advanced Micro Devices, Inc. Company Information
13.6.2 Advanced Micro Devices, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.6.3 Advanced Micro Devices, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Advanced Micro Devices, Inc. Main Business Overview
13.6.5 Advanced Micro Devices, Inc. Latest Developments
13.7 MediaTek Inc.
13.7.1 MediaTek Inc. Company Information
13.7.2 MediaTek Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.7.3 MediaTek Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 MediaTek Inc. Main Business Overview
13.7.5 MediaTek Inc. Latest Developments

+357 96 030922
info@marketpublishers.com

13.8 Texas Instruments Incorporated
13.8.1 Texas Instruments Incorporated Company Information
13.8.2 Texas Instruments Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.8.3 Texas Instruments Incorporated Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Texas Instruments Incorporated Main Business Overview
13.8.5 Texas Instruments Incorporated Latest Developments
13.9 Infineon Technologies AG
13.9.1 Infineon Technologies AG Company Information
13.9.2 Infineon Technologies AG Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.9.3 Infineon Technologies AG Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Infineon Technologies AG Main Business Overview
13.9.5 Infineon Technologies AG Latest Developments
13.10 NXP Semiconductors N.V.
13.10.1 NXP Semiconductors N.V. Company Information
13.10.2 NXP Semiconductors N.V. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.10.3 NXP Semiconductors N.V. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 NXP Semiconductors N.V. Main Business Overview
13.10.5 NXP Semiconductors N.V. Latest Developments
13.11 STMicroelectronics N.V.
13.11.1 STMicroelectronics N.V. Company Information
13.11.2 STMicroelectronics N.V. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.11.3 STMicroelectronics N.V. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 STMicroelectronics N.V. Main Business Overview
13.11.5 STMicroelectronics N.V. Latest Developments
13.12 Analog Devices, Inc.
13.12.1 Analog Devices, Inc. Company Information
13.12.2 Analog Devices, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.12.3 Analog Devices, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Analog Devices, Inc. Main Business Overview

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13.12.5 Analog Devices, Inc. Latest Developments
13.13 Renesas Electronics Corporation
13.13.1 Renesas Electronics Corporation Company Information
13.13.2 Renesas Electronics Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.13.3 Renesas Electronics Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Renesas Electronics Corporation Main Business Overview
13.13.5 Renesas Electronics Corporation Latest Developments
13.14 Microchip Technology Incorporated
13.14.1 Microchip Technology Incorporated Company Information
13.14.2 Microchip Technology Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.14.3 Microchip Technology Incorporated Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Microchip Technology Incorporated Main Business Overview
13.14.5 Microchip Technology Incorporated Latest Developments
13.15 Altera Corporation
13.15.1 Altera Corporation Company Information
13.15.2 Altera Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.15.3 Altera Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Altera Corporation Main Business Overview
13.15.5 Altera Corporation Latest Developments
13.16 Ambarella, Inc.
13.16.1 Ambarella, Inc. Company Information
13.16.2 Ambarella, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.16.3 Ambarella, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Ambarella, Inc. Main Business Overview
13.16.5 Ambarella, Inc. Latest Developments
13.17 Synaptics Incorporated
13.17.1 Synaptics Incorporated Company Information
13.17.2 Synaptics Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.17.3 Synaptics Incorporated Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)

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13.17.4 Synaptics Incorporated Main Business Overview
13.17.5 Synaptics Incorporated Latest Developments
13.18 Rockchip Electronics Co., Ltd.
13.18.1 Rockchip Electronics Co., Ltd. Company Information
13.18.2 Rockchip Electronics Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.18.3 Rockchip Electronics Co., Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Rockchip Electronics Co., Ltd. Main Business Overview
13.18.5 Rockchip Electronics Co., Ltd. Latest Developments
13.19 Hailo Technologies Ltd.
13.19.1 Hailo Technologies Ltd. Company Information
13.19.2 Hailo Technologies Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.19.3 Hailo Technologies Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Hailo Technologies Ltd. Main Business Overview
13.19.5 Hailo Technologies Ltd. Latest Developments
13.20 Lattice Semiconductor Corporation
13.20.1 Lattice Semiconductor Corporation Company Information
13.20.2 Lattice Semiconductor Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.20.3 Lattice Semiconductor Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Lattice Semiconductor Corporation Main Business Overview
13.20.5 Lattice Semiconductor Corporation Latest Developments
13.21 Nuvoton Technology Corporation
13.21.1 Nuvoton Technology Corporation Company Information
13.21.2 Nuvoton Technology Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.21.3 Nuvoton Technology Corporation Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.21.4 Nuvoton Technology Corporation Main Business Overview
13.21.5 Nuvoton Technology Corporation Latest Developments
13.22 NOVATEK MICROELECTRONICS CORP.
13.22.1 NOVATEK MICROELECTRONICS CORP. Company Information
13.22.2 NOVATEK MICROELECTRONICS CORP. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.22.3 NOVATEK MICROELECTRONICS CORP. Industrial Edge AI Vision Chip

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Sales, Revenue, Price and Gross Margin (2021-2026)
13.22.4 NOVATEK MICROELECTRONICS CORP. Main Business Overview
13.22.5 NOVATEK MICROELECTRONICS CORP. Latest Developments
13.23 SigmaStar Technology Ltd.
13.23.1 SigmaStar Technology Ltd. Company Information
13.23.2 SigmaStar Technology Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.23.3 SigmaStar Technology Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.23.4 SigmaStar Technology Ltd. Main Business Overview
13.23.5 SigmaStar Technology Ltd. Latest Developments
13.24 Axera Semiconductor Co., Ltd.
13.24.1 Axera Semiconductor Co., Ltd. Company Information
13.24.2 Axera Semiconductor Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.24.3 Axera Semiconductor Co., Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.24.4 Axera Semiconductor Co., Ltd. Main Business Overview
13.24.5 Axera Semiconductor Co., Ltd. Latest Developments
13.25 SiMa Technologies, Inc.
13.25.1 SiMa Technologies, Inc. Company Information
13.25.2 SiMa Technologies, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.25.3 SiMa Technologies, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.25.4 SiMa Technologies, Inc. Main Business Overview
13.25.5 SiMa Technologies, Inc. Latest Developments
13.26 Axelera AI B.V.
13.26.1 Axelera AI B.V. Company Information
13.26.2 Axelera AI B.V. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.26.3 Axelera AI B.V. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.26.4 Axelera AI B.V. Main Business Overview
13.26.5 Axelera AI B.V. Latest Developments
13.27 Kneron, Inc.
13.27.1 Kneron, Inc. Company Information
13.27.2 Kneron, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.27.3 Kneron, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.27.4 Kneron, Inc. Main Business Overview
13.27.5 Kneron, Inc. Latest Developments
13.28 DEEPX Co., Ltd.
13.28.1 DEEPX Co., Ltd. Company Information
13.28.2 DEEPX Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.28.3 DEEPX Co., Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.28.4 DEEPX Co., Ltd. Main Business Overview
13.28.5 DEEPX Co., Ltd. Latest Developments
13.29 Allwinner Technology Co., Ltd.
13.29.1 Allwinner Technology Co., Ltd. Company Information
13.29.2 Allwinner Technology Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.29.3 Allwinner Technology Co., Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.29.4 Allwinner Technology Co., Ltd. Main Business Overview
13.29.5 Allwinner Technology Co., Ltd. Latest Developments
13.30 Canaan Inc.
13.30.1 Canaan Inc. Company Information
13.30.2 Canaan Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.30.3 Canaan Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.30.4 Canaan Inc. Main Business Overview
13.30.5 Canaan Inc. Latest Developments
13.31 EdgeCortix Inc.
13.31.1 EdgeCortix Inc. Company Information
13.31.2 EdgeCortix Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.31.3 EdgeCortix Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.31.4 EdgeCortix Inc. Main Business Overview
13.31.5 EdgeCortix Inc. Latest Developments
13.32 Alif Semiconductor, Inc.
13.32.1 Alif Semiconductor, Inc. Company Information
13.32.2 Alif Semiconductor, Inc. Industrial Edge AI Vision Chip Product Portfolios and

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Specifications
13.32.3 Alif Semiconductor, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.32.4 Alif Semiconductor, Inc. Main Business Overview
13.32.5 Alif Semiconductor, Inc. Latest Developments
13.33 Himax Technologies, Inc.
13.33.1 Himax Technologies, Inc. Company Information
13.33.2 Himax Technologies, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.33.3 Himax Technologies, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.33.4 Himax Technologies, Inc. Main Business Overview
13.33.5 Himax Technologies, Inc. Latest Developments
13.34 Inuitive Ltd.
13.34.1 Inuitive Ltd. Company Information
13.34.2 Inuitive Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.34.3 Inuitive Ltd. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.34.4 Inuitive Ltd. Main Business Overview
13.34.5 Inuitive Ltd. Latest Developments
13.35 Mobilint, Inc.
13.35.1 Mobilint, Inc. Company Information
13.35.2 Mobilint, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.35.3 Mobilint, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.35.4 Mobilint, Inc. Main Business Overview
13.35.5 Mobilint, Inc. Latest Developments
13.36 MemryX Inc.
13.36.1 MemryX Inc. Company Information
13.36.2 MemryX Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.36.3 MemryX Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.36.4 MemryX Inc. Main Business Overview
13.36.5 MemryX Inc. Latest Developments
13.37 Mythic, Inc.
13.37.1 Mythic, Inc. Company Information

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13.37.2 Mythic, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.37.3 Mythic, Inc. Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.37.4 Mythic, Inc. Main Business Overview
13.37.5 Mythic, Inc. Latest Developments
13.38 Ingenic Semiconductor CO., LTD
13.38.1 Ingenic Semiconductor CO., LTD Company Information
13.38.2 Ingenic Semiconductor CO., LTD Industrial Edge AI Vision Chip Product Portfolios and Specifications
13.38.3 Ingenic Semiconductor CO., LTD Industrial Edge AI Vision Chip Sales, Revenue, Price and Gross Margin (2021-2026)
13.38.4 Ingenic Semiconductor CO., LTD Main Business Overview
13.38.5 Ingenic Semiconductor CO., LTD Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. Industrial Edge AI Vision Chip Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Industrial Edge AI Vision Chip Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Integrated AI Vision SoC
Table 4. Major Players of Dedicated AI Accelerator
Table 5. Major Players of Other
Table 6. Global Industrial Edge AI Vision Chip Sales by Type (2021-2026) & (Million Units)
Table 7. Global Industrial Edge AI Vision Chip Sales Market Share by Type (2021-2026)
Table 8. Global Industrial Edge AI Vision Chip Revenue by Type (2021-2026) & ($ million)
Table 9. Global Industrial Edge AI Vision Chip Revenue Market Share by Type (2021-2026)
Table 10. Global Industrial Edge AI Vision Chip Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Major Players of <1 TOPS
Table 12. Major Players of 1–5 TOPS
Table 13. Major Players of >5–25 TOPS
Table 14. Major Players of >25–100 TOPS
Table 15. Major Players of >100 TOPS
Table 16. Global Industrial Edge AI Vision Chip Sales by AI Compute Performance (2021-2026) & (Million Units)
Table 17. Global Industrial Edge AI Vision Chip Sales Market Share by AI Compute Performance (2021-2026)
Table 18. Global Industrial Edge AI Vision Chip Revenue by AI Compute Performance (2021-2026) & ($ million)
Table 19. Global Industrial Edge AI Vision Chip Revenue Market Share by AI Compute Performance (2021-2026)
Table 20. Global Industrial Edge AI Vision Chip Sale Price by AI Compute Performance (2021-2026) & (US$/Unit)
Table 21. Major Players of ?1 W
Table 22. Major Players of >1–5 W
Table 23. Major Players of >5–15 W
Table 24. Major Players of >15–30 W

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Table 25. Major Players of >30 W
Table 26. Global Industrial Edge AI Vision Chip Sales by Power Consumption (2021-2026) & (Million Units)
Table 27. Global Industrial Edge AI Vision Chip Sales Market Share by Power Consumption (2021-2026)
Table 28. Global Industrial Edge AI Vision Chip Revenue by Power Consumption (2021-2026) & ($ million)
Table 29. Global Industrial Edge AI Vision Chip Revenue Market Share by Power Consumption (2021-2026)
Table 30. Global Industrial Edge AI Vision Chip Sale Price by Power Consumption (2021-2026) & (US$/Unit)
Table 31. Major Players of Single-camera
Table 32. Major Players of 2–4 Cameras
Table 33. Major Players of 5–8 Cameras
Table 34. Major Players of >8 Cameras
Table 35. Global Industrial Edge AI Vision Chip Sales by Camera Input Capacity (2021-2026) & (Million Units)
Table 36. Global Industrial Edge AI Vision Chip Sales Market Share by Camera Input Capacity (2021-2026)
Table 37. Global Industrial Edge AI Vision Chip Revenue by Camera Input Capacity (2021-2026) & ($ million)
Table 38. Global Industrial Edge AI Vision Chip Revenue Market Share by Camera Input Capacity (2021-2026)
Table 39. Global Industrial Edge AI Vision Chip Sale Price by Camera Input Capacity (2021-2026) & (US$/Unit)
Table 40. Global Industrial Edge AI Vision Chip Sale by Application (2021-2026) & (Million Units)
Table 41. Global Industrial Edge AI Vision Chip Sale Market Share by Application (2021-2026)
Table 42. Global Industrial Edge AI Vision Chip Revenue by Application (2021-2026) & ($ million)
Table 43. Global Industrial Edge AI Vision Chip Revenue Market Share by Application (2021-2026)
Table 44. Global Industrial Edge AI Vision Chip Sale Price by Application (2021-2026) & (US$/Unit)
Table 45. Global Industrial Edge AI Vision Chip Sales by Company (2021-2026) & (Million Units)
Table 46. Global Industrial Edge AI Vision Chip Sales Market Share by Company (2021-2026)

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Table 47. Global Industrial Edge AI Vision Chip Revenue by Company (2021-2026) & ($ millions)
Table 48. Global Industrial Edge AI Vision Chip Revenue Market Share by Company (2021-2026)
Table 49. Global Industrial Edge AI Vision Chip Sale Price by Company (2021-2026) & (US$/Unit)
Table 50. Key Manufacturers Industrial Edge AI Vision Chip Producing Area Distribution and Sales Area
Table 51. Players Industrial Edge AI Vision Chip Products Offered
Table 52. Industrial Edge AI Vision Chip Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 53. New Products and Potential Entrants
Table 54. Market M&A Activity & Strategy
Table 55. Global Industrial Edge AI Vision Chip Sales by Geographic Region (2021-2026) & (Million Units)
Table 56. Global Industrial Edge AI Vision Chip Sales Market Share Geographic Region (2021-2026)
Table 57. Global Industrial Edge AI Vision Chip Revenue by Geographic Region (2021-2026) & ($ millions)
Table 58. Global Industrial Edge AI Vision Chip Revenue Market Share by Geographic Region (2021-2026)
Table 59. Global Industrial Edge AI Vision Chip Sales by Country/Region (2021-2026) & (Million Units)
Table 60. Global Industrial Edge AI Vision Chip Sales Market Share by Country/Region (2021-2026)
Table 61. Global Industrial Edge AI Vision Chip Revenue by Country/Region (2021-2026) & ($ millions)
Table 62. Global Industrial Edge AI Vision Chip Revenue Market Share by Country/Region (2021-2026)
Table 63. Americas Industrial Edge AI Vision Chip Sales by Country (2021-2026) & (Million Units)
Table 64. Americas Industrial Edge AI Vision Chip Sales Market Share by Country (2021-2026)
Table 65. Americas Industrial Edge AI Vision Chip Revenue by Country (2021-2026) & ($ millions)
Table 66. Americas Industrial Edge AI Vision Chip Sales by Type (2021-2026) & (Million Units)
Table 67. Americas Industrial Edge AI Vision Chip Sales by Application (2021-2026) & (Million Units)

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Table 68. APAC Industrial Edge AI Vision Chip Sales by Region (2021-2026) & (Million Units)
Table 69. APAC Industrial Edge AI Vision Chip Sales Market Share by Region (2021-2026)
Table 70. APAC Industrial Edge AI Vision Chip Revenue by Region (2021-2026) & ($ millions)
Table 71. APAC Industrial Edge AI Vision Chip Sales by Type (2021-2026) & (Million Units)
Table 72. APAC Industrial Edge AI Vision Chip Sales by Application (2021-2026) & (Million Units)
Table 73. Europe Industrial Edge AI Vision Chip Sales by Country (2021-2026) & (Million Units)
Table 74. Europe Industrial Edge AI Vision Chip Revenue by Country (2021-2026) & ($ millions)
Table 75. Europe Industrial Edge AI Vision Chip Sales by Type (2021-2026) & (Million Units)
Table 76. Europe Industrial Edge AI Vision Chip Sales by Application (2021-2026) & (Million Units)
Table 77. Middle East & Africa Industrial Edge AI Vision Chip Sales by Country (2021-2026) & (Million Units)
Table 78. Middle East & Africa Industrial Edge AI Vision Chip Revenue Market Share by Country (2021-2026)
Table 79. Middle East & Africa Industrial Edge AI Vision Chip Sales by Type (2021-2026) & (Million Units)
Table 80. Middle East & Africa Industrial Edge AI Vision Chip Sales by Application (2021-2026) & (Million Units)
Table 81. Key Market Drivers & Growth Opportunities of Industrial Edge AI Vision Chip
Table 82. Key Market Challenges & Risks of Industrial Edge AI Vision Chip
Table 83. Key Industry Trends of Industrial Edge AI Vision Chip
Table 84. Industrial Edge AI Vision Chip Raw Material
Table 85. Key Suppliers of Raw Materials
Table 86. Industrial Edge AI Vision Chip Distributors List
Table 87. Industrial Edge AI Vision Chip Customer List
Table 88. Global Industrial Edge AI Vision Chip Sales Forecast by Region (2027-2032) & (Million Units)
Table 89. Global Industrial Edge AI Vision Chip Revenue Forecast by Region (2027-2032) & ($ millions)
Table 90. Americas Industrial Edge AI Vision Chip Sales Forecast by Country (2027-2032) & (Million Units)

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Table 91. Americas Industrial Edge AI Vision Chip Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 92. APAC Industrial Edge AI Vision Chip Sales Forecast by Region (2027-2032) & (Million Units)
Table 93. APAC Industrial Edge AI Vision Chip Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 94. Europe Industrial Edge AI Vision Chip Sales Forecast by Country (2027-2032) & (Million Units)
Table 95. Europe Industrial Edge AI Vision Chip Revenue Forecast by Country (2027-2032) & ($ millions)
Table 96. Middle East & Africa Industrial Edge AI Vision Chip Sales Forecast by Country (2027-2032) & (Million Units)
Table 97. Middle East & Africa Industrial Edge AI Vision Chip Revenue Forecast by Country (2027-2032) & ($ millions)
Table 98. Global Industrial Edge AI Vision Chip Sales Forecast by Type (2027-2032) & (Million Units)
Table 99. Global Industrial Edge AI Vision Chip Revenue Forecast by Type (2027-2032) & ($ millions)
Table 100. Global Industrial Edge AI Vision Chip Sales Forecast by Application (2027-2032) & (Million Units)
Table 101. Global Industrial Edge AI Vision Chip Revenue Forecast by Application (2027-2032) & ($ millions)
Table 102. NVIDIA Corporation Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 103. NVIDIA Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 104. NVIDIA Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. NVIDIA Corporation Main Business
Table 106. NVIDIA Corporation Latest Developments
Table 107. Huawei Investment & Holding Co., Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 108. Huawei Investment & Holding Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 109. Huawei Investment & Holding Co., Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. Huawei Investment & Holding Co., Ltd. Main Business
Table 111. Huawei Investment & Holding Co., Ltd. Latest Developments
Table 112. Sony Group Corporation Basic Information, Industrial Edge AI Vision Chip

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Manufacturing Base, Sales Area and Its Competitors
Table 113. Sony Group Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 114. Sony Group Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. Sony Group Corporation Main Business
Table 116. Sony Group Corporation Latest Developments
Table 117. Intel Corporation Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 118. Intel Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 119. Intel Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. Intel Corporation Main Business
Table 121. Intel Corporation Latest Developments
Table 122. Qualcomm Incorporated Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 123. Qualcomm Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 124. Qualcomm Incorporated Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 125. Qualcomm Incorporated Main Business
Table 126. Qualcomm Incorporated Latest Developments
Table 127. Advanced Micro Devices, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 128. Advanced Micro Devices, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 129. Advanced Micro Devices, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. Advanced Micro Devices, Inc. Main Business
Table 131. Advanced Micro Devices, Inc. Latest Developments
Table 132. MediaTek Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 133. MediaTek Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 134. MediaTek Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 135. MediaTek Inc. Main Business
Table 136. MediaTek Inc. Latest Developments

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Table 137. Texas Instruments Incorporated Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 138. Texas Instruments Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 139. Texas Instruments Incorporated Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 140. Texas Instruments Incorporated Main Business
Table 141. Texas Instruments Incorporated Latest Developments
Table 142. Infineon Technologies AG Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 143. Infineon Technologies AG Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 144. Infineon Technologies AG Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 145. Infineon Technologies AG Main Business
Table 146. Infineon Technologies AG Latest Developments
Table 147. NXP Semiconductors N.V. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 148. NXP Semiconductors N.V. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 149. NXP Semiconductors N.V. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 150. NXP Semiconductors N.V. Main Business
Table 151. NXP Semiconductors N.V. Latest Developments
Table 152. STMicroelectronics N.V. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 153. STMicroelectronics N.V. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 154. STMicroelectronics N.V. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 155. STMicroelectronics N.V. Main Business
Table 156. STMicroelectronics N.V. Latest Developments
Table 157. Analog Devices, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 158. Analog Devices, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 159. Analog Devices, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 160. Analog Devices, Inc. Main Business

+357 96 030922
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Table 161. Analog Devices, Inc. Latest Developments
Table 162. Renesas Electronics Corporation Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 163. Renesas Electronics Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 164. Renesas Electronics Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 165. Renesas Electronics Corporation Main Business
Table 166. Renesas Electronics Corporation Latest Developments
Table 167. Microchip Technology Incorporated Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 168. Microchip Technology Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 169. Microchip Technology Incorporated Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 170. Microchip Technology Incorporated Main Business
Table 171. Microchip Technology Incorporated Latest Developments
Table 172. Altera Corporation Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 173. Altera Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 174. Altera Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 175. Altera Corporation Main Business
Table 176. Altera Corporation Latest Developments
Table 177. Ambarella, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 178. Ambarella, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 179. Ambarella, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 180. Ambarella, Inc. Main Business
Table 181. Ambarella, Inc. Latest Developments
Table 182. Synaptics Incorporated Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 183. Synaptics Incorporated Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 184. Synaptics Incorporated Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)

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info@marketpublishers.com

Table 185. Synaptics Incorporated Main Business
Table 186. Synaptics Incorporated Latest Developments
Table 187. Rockchip Electronics Co., Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 188. Rockchip Electronics Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 189. Rockchip Electronics Co., Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 190. Rockchip Electronics Co., Ltd. Main Business
Table 191. Rockchip Electronics Co., Ltd. Latest Developments
Table 192. Hailo Technologies Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 193. Hailo Technologies Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 194. Hailo Technologies Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 195. Hailo Technologies Ltd. Main Business
Table 196. Hailo Technologies Ltd. Latest Developments
Table 197. Lattice Semiconductor Corporation Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 198. Lattice Semiconductor Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 199. Lattice Semiconductor Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 200. Lattice Semiconductor Corporation Main Business
Table 201. Lattice Semiconductor Corporation Latest Developments
Table 202. Nuvoton Technology Corporation Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 203. Nuvoton Technology Corporation Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 204. Nuvoton Technology Corporation Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 205. Nuvoton Technology Corporation Main Business
Table 206. Nuvoton Technology Corporation Latest Developments
Table 207. NOVATEK MICROELECTRONICS CORP. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 208. NOVATEK MICROELECTRONICS CORP. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 209. NOVATEK MICROELECTRONICS CORP. Industrial Edge AI Vision Chip

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Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 210. NOVATEK MICROELECTRONICS CORP. Main Business
Table 211. NOVATEK MICROELECTRONICS CORP. Latest Developments
Table 212. SigmaStar Technology Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 213. SigmaStar Technology Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 214. SigmaStar Technology Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 215. SigmaStar Technology Ltd. Main Business
Table 216. SigmaStar Technology Ltd. Latest Developments
Table 217. Axera Semiconductor Co., Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 218. Axera Semiconductor Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 219. Axera Semiconductor Co., Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 220. Axera Semiconductor Co., Ltd. Main Business
Table 221. Axera Semiconductor Co., Ltd. Latest Developments
Table 222. SiMa Technologies, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 223. SiMa Technologies, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 224. SiMa Technologies, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 225. SiMa Technologies, Inc. Main Business
Table 226. SiMa Technologies, Inc. Latest Developments
Table 227. Axelera AI B.V. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 228. Axelera AI B.V. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 229. Axelera AI B.V. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 230. Axelera AI B.V. Main Business
Table 231. Axelera AI B.V. Latest Developments
Table 232. Kneron, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 233. Kneron, Inc. Industrial Edge AI Vision Chip Product Portfolios and

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Specifications
Table 234. Kneron, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 235. Kneron, Inc. Main Business
Table 236. Kneron, Inc. Latest Developments
Table 237. DEEPX Co., Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 238. DEEPX Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 239. DEEPX Co., Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 240. DEEPX Co., Ltd. Main Business
Table 241. DEEPX Co., Ltd. Latest Developments
Table 242. Allwinner Technology Co., Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 243. Allwinner Technology Co., Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 244. Allwinner Technology Co., Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 245. Allwinner Technology Co., Ltd. Main Business
Table 246. Allwinner Technology Co., Ltd. Latest Developments
Table 247. Canaan Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 248. Canaan Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 249. Canaan Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 250. Canaan Inc. Main Business
Table 251. Canaan Inc. Latest Developments
Table 252. EdgeCortix Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 253. EdgeCortix Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 254. EdgeCortix Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 255. EdgeCortix Inc. Main Business
Table 256. EdgeCortix Inc. Latest Developments
Table 257. Alif Semiconductor, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors

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Table 258. Alif Semiconductor, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 259. Alif Semiconductor, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 260. Alif Semiconductor, Inc. Main Business
Table 261. Alif Semiconductor, Inc. Latest Developments
Table 262. Himax Technologies, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 263. Himax Technologies, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 264. Himax Technologies, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 265. Himax Technologies, Inc. Main Business
Table 266. Himax Technologies, Inc. Latest Developments
Table 267. Inuitive Ltd. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 268. Inuitive Ltd. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 269. Inuitive Ltd. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 270. Inuitive Ltd. Main Business
Table 271. Inuitive Ltd. Latest Developments
Table 272. Mobilint, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 273. Mobilint, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 274. Mobilint, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 275. Mobilint, Inc. Main Business
Table 276. Mobilint, Inc. Latest Developments
Table 277. MemryX Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 278. MemryX Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 279. MemryX Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 280. MemryX Inc. Main Business
Table 281. MemryX Inc. Latest Developments
Table 282. Mythic, Inc. Basic Information, Industrial Edge AI Vision Chip Manufacturing

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Base, Sales Area and Its Competitors
Table 283. Mythic, Inc. Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 284. Mythic, Inc. Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 285. Mythic, Inc. Main Business
Table 286. Mythic, Inc. Latest Developments
Table 287. Ingenic Semiconductor CO., LTD Basic Information, Industrial Edge AI Vision Chip Manufacturing Base, Sales Area and Its Competitors
Table 288. Ingenic Semiconductor CO., LTD Industrial Edge AI Vision Chip Product Portfolios and Specifications
Table 289. Ingenic Semiconductor CO., LTD Industrial Edge AI Vision Chip Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 290. Ingenic Semiconductor CO., LTD Main Business
Table 291. Ingenic Semiconductor CO., LTD Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Industrial Edge AI Vision Chip
Figure 2. Industrial Edge AI Vision Chip Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Industrial Edge AI Vision Chip Sales Growth Rate 2021-2032 (Million Units)
Figure 7. Global Industrial Edge AI Vision Chip Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Industrial Edge AI Vision Chip Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Industrial Edge AI Vision Chip Sales Market Share by Country/Region (2025)
Figure 10. Industrial Edge AI Vision Chip Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Integrated AI Vision SoC
Figure 12. Product Picture of Dedicated AI Accelerator
Figure 13. Product Picture of Other
Figure 14. Global Industrial Edge AI Vision Chip Sales Market Share by Type in 2026
Figure 15. Global Industrial Edge AI Vision Chip Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of <1 TOPS
Figure 17. Product Picture of 1–5 TOPS
Figure 18. Product Picture of >5–25 TOPS
Figure 19. Product Picture of >25–100 TOPS
Figure 20. Product Picture of >100 TOPS
Figure 21. Global Industrial Edge AI Vision Chip Sales Market Share by AI Compute Performance in 2026
Figure 22. Global Industrial Edge AI Vision Chip Revenue Market Share by AI Compute Performance (2021-2026)
Figure 23. Product Picture of ?1 W
Figure 24. Product Picture of >1–5 W
Figure 25. Product Picture of >5–15 W
Figure 26. Product Picture of >15–30 W
Figure 27. Product Picture of >30 W
Figure 28. Global Industrial Edge AI Vision Chip Sales Market Share by Power

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Consumption in 2026
Figure 29. Global Industrial Edge AI Vision Chip Revenue Market Share by Power Consumption (2021-2026)
Figure 30. Product Picture of Single-camera
Figure 31. Product Picture of 2–4 Cameras
Figure 32. Product Picture of 5–8 Cameras
Figure 33. Product Picture of >8 Cameras
Figure 34. Global Industrial Edge AI Vision Chip Sales Market Share by Camera Input Capacity in 2026
Figure 35. Global Industrial Edge AI Vision Chip Revenue Market Share by Camera Input Capacity (2021-2026)
Figure 36. Industrial Edge AI Vision Chip Consumed in Electronics & Semiconductor Manufacturing
Figure 37. Global Industrial Edge AI Vision Chip Market: Electronics & Semiconductor Manufacturing (2021-2026) & (Million Units)
Figure 38. Industrial Edge AI Vision Chip Consumed in Automotive Manufacturing
Figure 39. Global Industrial Edge AI Vision Chip Market: Automotive Manufacturing (2021-2026) & (Million Units)
Figure 40. Industrial Edge AI Vision Chip Consumed in Logistics & Warehousing
Figure 41. Global Industrial Edge AI Vision Chip Market: Logistics & Warehousing (2021-2026) & (Million Units)
Figure 42. Industrial Edge AI Vision Chip Consumed in Pharmaceutical & Medical Manufacturing
Figure 43. Global Industrial Edge AI Vision Chip Market: Pharmaceutical & Medical Manufacturing (2021-2026) & (Million Units)
Figure 44. Industrial Edge AI Vision Chip Consumed in Energy & Utilities
Figure 45. Global Industrial Edge AI Vision Chip Market: Energy & Utilities (2021-2026) & (Million Units)
Figure 46. Industrial Edge AI Vision Chip Consumed in Other
Figure 47. Global Industrial Edge AI Vision Chip Market: Other (2021-2026) & (Million Units)
Figure 48. Global Industrial Edge AI Vision Chip Sale Market Share by Application (2025)
Figure 49. Global Industrial Edge AI Vision Chip Revenue Market Share by Application in 2025
Figure 50. Industrial Edge AI Vision Chip Sales by Company in 2025 (Million Units)
Figure 51. Global Industrial Edge AI Vision Chip Sales Market Share by Company in 2025
Figure 52. Industrial Edge AI Vision Chip Revenue by Company in 2025 ($ millions)

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Figure 53. Global Industrial Edge AI Vision Chip Revenue Market Share by Company in 2025
Figure 54. Global Industrial Edge AI Vision Chip Sales Market Share by Geographic Region (2021-2026)
Figure 55. Global Industrial Edge AI Vision Chip Revenue Market Share by Geographic Region in 2025
Figure 56. Americas Industrial Edge AI Vision Chip Sales 2021-2026 (Million Units)
Figure 57. Americas Industrial Edge AI Vision Chip Revenue 2021-2026 ($ millions)
Figure 58. APAC Industrial Edge AI Vision Chip Sales 2021-2026 (Million Units)
Figure 59. APAC Industrial Edge AI Vision Chip Revenue 2021-2026 ($ millions)
Figure 60. Europe Industrial Edge AI Vision Chip Sales 2021-2026 (Million Units)
Figure 61. Europe Industrial Edge AI Vision Chip Revenue 2021-2026 ($ millions)
Figure 62. Middle East & Africa Industrial Edge AI Vision Chip Sales 2021-2026 (Million Units)

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