

# Global Deep Learning Chipset Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Deep Learning Chipset market size is expected to reach \$ 56670 million by 2032, rising at a market growth of 24.9% CAGR during the forecast period (2026-2032).

A Deep Learning Chipset is a specialized hardware architecture designed to accelerate the computationally intensive tasks of neural network training and inference. Unlike general-purpose processors, these chipsets optimize for matrix operations, parallel data processing, and energy efficiency, leveraging architectures such as GPUs, ASICs, FPGAs, and emerging technologies like photonic computing. Key features include:

Architectural Specialization:

GPUs (e.g., NVIDIA's Blackwell-based Thor chip) dominate due to their parallel processing capabilities, with the Thor-Super achieving 2,000 TOPS and supporting end-to-end autonomous driving models.

ASICs (e.g., Google TPU) offer high efficiency for specific workloads, holding 74% of the ASIC market share in 2024.

FPGAs (e.g., Intel's Stratix 10) provide reconfigurability, ideal for edge AI applications.

Photonic Chips (e.g., University of Pennsylvania's light-trained neural networks) enable low-latency, energy-efficient computation.

Process Technology: Advanced nodes like TSMC's 3nm (used in Xiaomi's Xuanjie O1 chip) and 4nm (NVIDIA Thor) drive higher transistor density and performance.

**Energy Optimization:** Dynamic voltage regulation (e.g., H800's multi-tiered power management) and hybrid precision computing (FP16/INT8) reduce power consumption by 40% compared to previous generations.

#### Market Dynamics:

**Edge AI Expansion:** Edge chipsets (e.g., Qualcomm's Cloud AI 100) will grow at 25% CAGR, driven by IoT and edge robotics.

**Supply Chain Reshaping:** U.S. export restrictions on advanced chips to China are accelerating domestic R&D, with Chinese ASICs now powering 43% of local supercomputers.

**Open Ecosystems:** RISC-V-based designs (e.g., SiFive's U74) and open-source frameworks (TensorFlow, PyTorch) lower barriers to entry for startups.

#### Sustainability and Policy:

**Green AI:** Energy-efficient designs (e.g., NVIDIA's Hopper architecture) and renewable-powered data centers aim to reduce AI's carbon footprint by 40% by 2030.

**Regulatory Shifts:** The EU's AI Act mandates transparency in high-risk AI systems, affecting chipset design for compliance.

#### Regional Strategies:

**U.S. Leadership:** NVIDIA and Intel invest in 2nm and chiplet packaging to maintain dominance.

**China's Self-Reliance:** Huawei and SMIC focus on 7nm and mature-node ASICs, while Xiaomi's 3nm Xuanjie O1 targets premium markets.

**EU Ambitions:** France's IMEC and Germany's Fraunhofer develop GaN-based chips for low-power AI.

This report studies the global Deep Learning Chipset production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Deep

Learning Chipset 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 Deep Learning Chipset that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Deep Learning Chipset total production and demand, 2021-2032, (K Units)

Global Deep Learning Chipset total production value, 2021-2032, (USD Million)

Global Deep Learning Chipset production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Deep Learning Chipset consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Deep Learning Chipset domestic production, consumption, key domestic manufacturers and share

Global Deep Learning Chipset production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Deep Learning Chipset production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Deep Learning Chipset production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Deep Learning Chipset 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 NVIDIA, Intel, IBM, Qualcomm, Huawei Technologies, KnuEdge, AMD, Xilinx, ARM, Google, 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 Deep Learning Chipset market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Deep Learning Chipset Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Deep Learning Chipset Market, Segmentation by Type:

Graphics Processing Units (GPUs)

Central Processing Units (CPUs)

Application Specific Integrated Circuits (ASICs)

Field Programmable Gate Arrays (FPGAs)

Others

#### Global Deep Learning Chipset Market, Segmentation by Application:

Consumer Electronics

Aerospace, Military & Defense

Automotive

Industrial

Medical

Others

Companies Profiled:

NVIDIA

Intel

IBM

Qualcomm

Huawei Technologies

KnuEdge

AMD

Xilinx

ARM

Google

Graphcore

TeraDeep

Wave Computing

BrainChip

**Key Questions Answered:**

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

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