

HT Semiconductor

Storage Products Introduction

Three Decades of Deep Dive in Storage, Co-creating a New Future for the Intelligent World

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01 ABOUT US

A deep dive into the company's journey and core strengths: from startup to industry leader, built on decades of scale and deep technological expertise.

02 OUR PRODUCTS

Covering high-performance memory cards, enterprise-grade SSDs, high-speed USB flash drives, and embedded storage solutions.

03 MARKET INSIGHT

Focusing on the latest trends and growth opportunities in the global storage market, and delving into demand shifts in core sectors such as consumer electronics, IoT and industrial control.

04 WHY CHOOSE US

Built on a seasoned R&D team and rigorous international quality certifications, we deliver long-term value and competitive advantage to our customers through technological innovation and customized services.

01 ABOUT US



With over three decades of dedication to the semiconductor industry, we craft efficient and reliable chip solutions.

Company Profile

Shenzhen Jinyu Semiconductor Co., Ltd. (HT Semiconductor) is a semiconductor enterprise with over 30 years of industry experience. We specialize in the design and manufacturing of power devices, discrete devices, and integrated circuits. Since our establishment in 2011, we have evolved into a comprehensive solution provider integrating chip design, packaging and testing, and manufacturing, delivering high-quality, high-reliability products and services to global customers.

Development History



Leveraging highly automated intelligent manufacturing lines, we achieved a leap from technology introduction to independent R&D. Upholding "Creating Gold Standard Quality, Forging a Reputable Enterprise," we continuously break through technological barriers to drive innovation.

01 Foundation & Inception • 1991-2006

Starting as a trading company, Tianke Technology was established in 1995, laying a solid foundation for market expansion and resource accumulation in the early stage.

02 Brand Launch • 2007-2010

Initiated the strategy of building our own brand, completing the critical transformation from pure trading to brand-oriented operation with core competitiveness.

03 Intelligent Manufacturing • 2011-2018

Built our own packaging production line with full investment, achieving a qualitative leap in manufacturing capacity and intelligent production efficiency.

04 Innovation & Breakthrough • 2019-Present

Expanded into IC design and third-gen semiconductors, honored as a National-level "Little Giant" Enterprise for specialized and sophisticated innovation.

"Creating Gold Standard Quality, Forging a Reputable Enterprise" — Committed to continuous innovation and becoming a leading semiconductor solution provider.

Company Scale and Strength



Since its establishment, HT Semiconductor has been deeply engaged in the semiconductor field. With profound industry accumulation and continuous innovation investment, we have built a full-chain capability from chip design to packaging and testing, providing high-performance and high-reliability semiconductor products and solutions to global customers, and striving to become a world-leading semiconductor manufacturing service provider.

Industry Accumulation

30+ Years

Deep accumulation in semiconductor field

Asset Investment

70M+ USD

Building high-standard manufacturing facilities

Production Base

120k+ m^2

Intelligent and automated clean workshops

Elite Team

1000+ People

Top technical and management talents worldwide

Annual Revenue

109M+ USD

Steadily growing market performance

Annual Capacity

21B+ PCS/Yr

Strong large-scale production capacity

R&D Investment

45M+ CNY/Yr

Driving innovation and product iteration

Technical Patents

208+ Authorized

Solid independent IP barrier

Product Yield

99.6% Quality Commitment

Strict quality control system

02 OUR PRODUCTS

Memory Card Series

Covers Micro SD and standard SD cards, compatible with portable devices like mobile phones, cameras, and drones, providing high-speed and stable storage experience to meet mobile scenario needs.

USB Flash Drive Modules

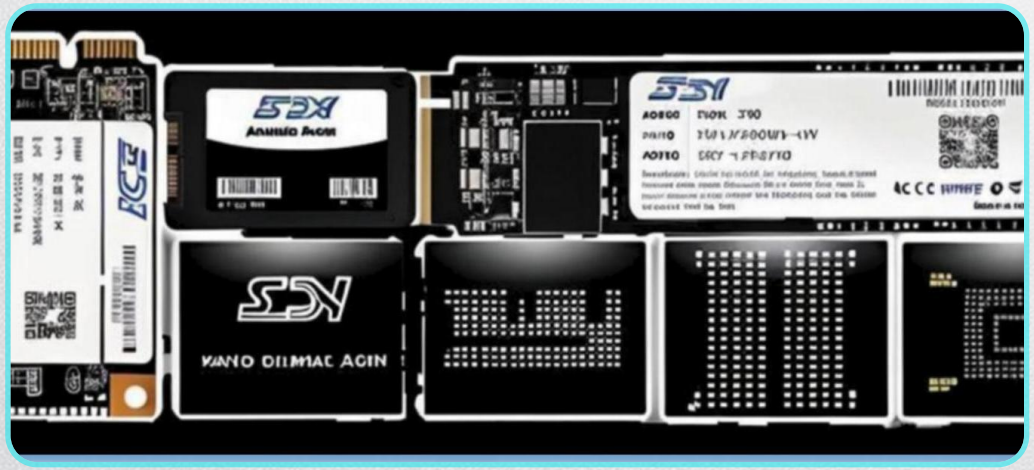
Industrial-grade package design with excellent waterproof, dustproof and anti-vibration performance, built for harsh environments such as vehicle and industrial control, stable and reliable.

Solid State Drives (SSD)

Covers full specifications like SATA III and NVMe M.2, providing ultra-fast read/write speeds for laptops, desktops and servers, with both large capacity and high stability.

BGA Packaging Products

High-density embedded storage solutions, designed for IoT devices and smart wearables, compact in size yet powerful in performance, suitable for compact space requirements.



Diversified Storage Matrix, Empowering Full-Scenario Applications

We are committed to providing high-performance and high-reliability storage solutions, covering consumer, industrial and embedded application fields. Our rich product matrix meets storage needs in various scenarios, helping customers achieve high efficiency and stability of their products, and providing solid storage support for the digital era.

Hot-Selling Memory Card Series



01 IPC专用系列

IPC Special Series

Core Specs: Capacities from 32GB to 128GB, read speed up to 90MB/s, powerful performance.
Scenarios: Built for security surveillance, smart speakers & electric toys, ideal for 7x24h non-stop writing, stable and reliable.



02 记录仪专用系列

Recorder Special Series

Core Specs: 32GB-256GB, read/write speed 90/30MB/s, high-throughput design.
Scenarios: Perfect for dash cams, body cams & drones, ensures stable HD video writing, no frame drops or lags.



03 Industrial Grade High Stability

Industrial Grade High Stability

Core Specs: Operates in -25°C to 85°C, excellent anti-vibration & anti-EMI.
Scenarios: For car surround view & industrial control, ensures data safety in harsh conditions.

Industrial-Grade Wide-Temperature SSD Series



SATA III 2.5-inch SSD

Capacity: 128GB - 8TB Optional

Read Speed: Up to 550 MB/s

Write Speed: Up to 500 MB/s

Features hardware-level PLP (Power Loss Protection) to prevent data loss during unexpected power outages. It maintains stable performance during large-scale data read/write tasks, making it an ideal upgrade option for desktop and laptop computers.



mSATA High-Performance SSD

Capacity: 32GB - 1TB Flexible

Read Speed: Up to 550 MB/s

Write Speed: Up to 500 MB/s

Engineered for industrial use with superior anti-vibration and wide temperature tolerance (-40°C to 85°C). Perfect for industrial computers and embedded systems, delivering consistent performance in harsh operating conditions and combining high efficiency with industrial-grade reliability.

Industrial-Grade Wide-Temperature and Semi-Wide-Temperature Solid State Drive Series

M.2 2242 SATA SSD

- Capacity: 64GB - 1TB Optional
- Read Speed: Up to 550 MB/s
- Write Speed: Up to 500 MB/s



Compact form factor designed for space-constrained industrial devices. Equipped with S.M.A.R.T. monitoring, TRIM support, and hot-swappable capability, ensuring reliable performance and easy integration into embedded systems, industrial control units, and compact IoT hardware.

M.2 2280 SATA SSD

- Capacity: 64GB - 2TB Flexible Configuration
- Read Speed: Up to 550 MB/s
- Write Speed: Up to 500 MB/s



Engineered for wide-temperature operation (-40°C to 85°C), making it ideal for automotive, medical, and industrial control systems. Delivers consistent performance for legacy platform upgrades, ensuring stability in harsh environments with robust error correction and power loss protection features.

Industrial-Grade Wide-Temperature and Semi-Wide-Temperature Solid State Drive Series

M.2 PCIe3.0 2242 SSD



Capacity: 128GB - 1TB Optional

Read: Up to 3300 MB/s

Write: Up to 3000 MB/s

NVMe 1.4 compliant, delivering high-speed performance in space-constrained industrial embedded platforms. Optimized for compact embedded systems, ensuring reliable and fast storage for industrial control, medical, and automotive applications.

M.2 PCIe4.0 2280 SSD



Capacity: 256GB - 4TB Flexible

Read: Up to 7400 MB/s

Write: Up to 6600 MB/s

NVMe 2.0 support for extreme performance in harsh environments like edge computing and rail transit. Built to withstand extreme temperatures and heavy workloads, perfect for mission-critical industrial applications.

Consumer-Grade Solid State Drive Series



M.2 PCIe 4.0 2280 SSD

512GB - 4TB
Massive Storage Capacity

7100 MB/s
Sequential Read Speed

6000 MB/s
Sequential Write Speed

Equipped with self-developed optimized decoupling capabilities, it is built for high-performance PCs and gaming laptops. It easily handles heavy-load scenarios such as large 3A game loading and 4K video editing, delivering an extremely smooth storage response experience.



M.2 SATA 2280 SSD

128GB - 4TB
Flexible Capacity Options

560 MB/s
Sequential Read Speed

520 MB/s
Sequential Write Speed

Equipped with LDPC intelligent error correction algorithm, it effectively improves the stability and reliability of data transmission. It perfectly fits mainstream office and entertainment scenarios, making it a cost-effective choice for laptop and desktop upgrades.



2.5-inch SATA3 SSD

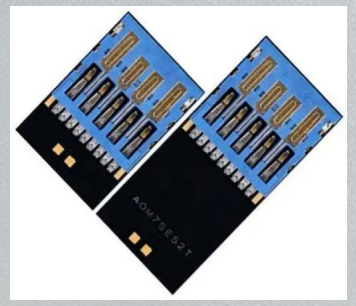
128GB - 1TB
Classic Upgrade Choice

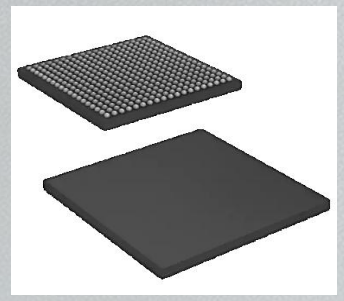
540 MB/s
Sequential Read Speed

500 MB/s
Sequential Write Speed

Strictly adhering to the ATA 3.2 specification, it is compatible with various desktops and laptops. It is plug-and-play without the need for additional drivers, and can significantly improve the system response speed and file transfer efficiency of old devices.

USB Flash Drive Modules and BGA





Diverse storage media forms, high-reliability storage solutions designed for automotive, surveillance and other scenarios

01. UDP/MUDP 3.0 High-Speed Flash Memory Modules

Capacity and Speed: Flexible options from 8GB to 512GB, read speed up to 150MB/s, write speed up to 80MB/s, efficiently meeting data read and write requirements.

Scenario Optimization: Deeply optimized for automotive multi-stream video writing scenarios, ensuring continuous storage of high-definition videos in driving surveillance, security recording and other scenarios, eliminating frame loss and stream interruption issues.

02. BGA Package High-Density Storage Solutions

Ultimate Integration: 2-3 times higher storage density in the same volume, significantly saving PCB space, perfectly adapting to the design needs of miniaturized, highly integrated embedded devices.

Superior Performance: Compared with traditional TSOP packages, it has better thermal performance and electrical stability, stronger anti-interference ability, suitable for high-demand application scenarios such as industrial and automotive use.

Application Field Analysis

The application fields of memory chips are ushering in structural changes. AI, smart cars, and consumer electronics constitute the three core growth engines driving market demand.





01 Automotive Electronics

Expected to reach $16.26B by 2026, it is the fastest-growing segment, contributing 50% of our total revenue, driven by surging demand for ADAS and autonomous driving.

02 Consumer Electronics

Still the largest market, covering smartphones, PCs and other smart terminals. It accounts for about 40% of our business, driven by 5G and AI application upgrades.

03 Industrial & Others

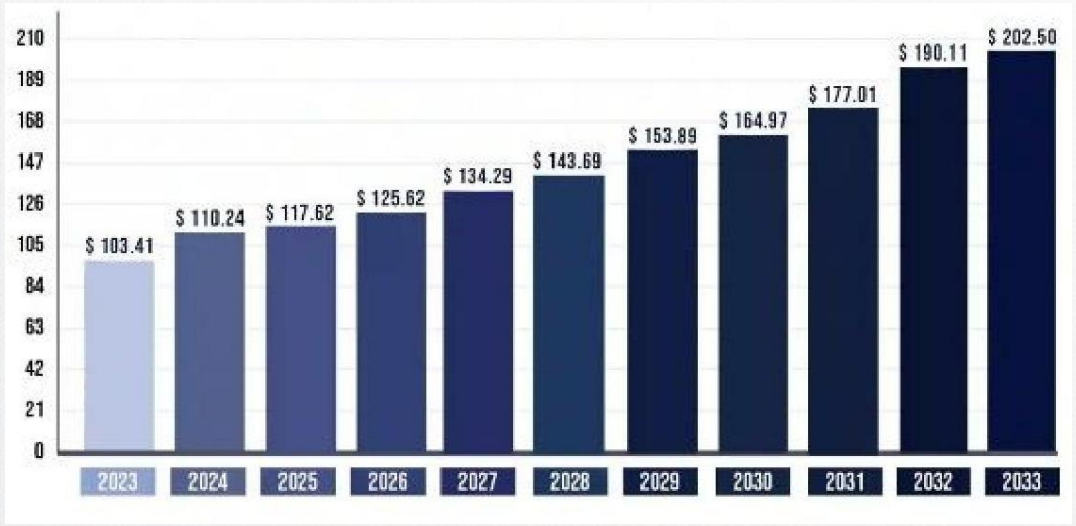
Covers industrial automation, IoT, and communication infrastructure. It serves as a stable and important supplement to our business with steady demand and high reliability requirements.

03 MARKET INSIGHT

Global Semiconductor Memory Market Overview

Driven by the explosive demand for AI computing power, the global semiconductor market has entered a new growth cycle. As the core carrier of data processing, memory devices are not only the largest segment in terms of market size but also a key driver for the iteration of chip technology and continuous innovation in the industry.

2026 Total Revenue	Memory Market Share	5-Year CAGR
1.56 Trillion	54%	26.0%
Peak of global semiconductor market scale, demand continues to climb driven by AI	A core segment, accounting for half of the global semiconductor market	2025-2030 CAGR, industry maintains high-speed expansion



2030 Market Outlook & Drivers

By 2030, the global semiconductor memory market is projected to exceed $875.6 billion. Emerging scenarios like AI data centers, autonomous driving, and IoT will continue to inject strong momentum, driving long-term steady growth with broad prospects.

04 WHY CHOOSE US



Backed by strong technical accumulation and a complete production system, we have built an insurmountable competitive barrier in the semiconductor packaging and testing field. From independent R&D of core technologies to large-scale intelligent manufacturing, and strict full-process quality control, every step is dedicated to delivering higher-quality, more reliable products and helping partners maximize commercial value.

Brand Strength

We own two major brands, PULOP and SDH, and have accumulated high market recognition and brand influence with excellent quality.

Technical Strength

Holding 59 invention patents and 84 utility model patents, we have deep technical reserves through in-depth industry-university-research cooperation with universities.

Customer Advantage

Serving over 160 Chinese listed companies with long-term stable partnerships, covering consumer electronics, automotive electronics and other fields.

Equipment Advantage

he company has invested RMB 450 million in world-class equipment from K&S and other leading suppliers, and operates 75 automated advanced packaging production lines.

Quality Advantage: Industry Benchmark-level Quality

Product yield is as high as 99.6%, quality control capability ranks among the top two in China, and a rigorous full-process quality traceability system has been established.

Professional Team



Core Engineer Team
85% Senior Experts

85% are senior industry experts with profound accumulation and technical expertise, building a solid R&D foundation and innovation barriers.

FAE Technical Team
80% Practical Experience

All members have rich frontline experience, accurately meet customer needs, solve technical problems quickly, and ensure project progress.

Core Management Team
65% Industry Leaders

Led by leaders with over 20 years of experience, guiding steady development with macro strategic vision and grasping industry trends.

Team Structure Distribution

R&D Innovation (22%)
Focus on core technology and product iteration, gather top talents, continuously output competitive solutions to drive innovation.

Production & QC (64.8%)
Rely on standardized smart production bases and strict QC systems to control quality, ensure delivery efficiency and stability.

Marketing & Service (17.3%)
Build an extensive service network, provide full-life-cycle support and service, respond quickly to market needs and build trust.

Quality Control and Certification

We have established a comprehensive quality control system and a reliability laboratory equipped with advanced testing equipment to fully guarantee product performance stability. With strict quality control processes and standardized management, we have obtained multiple international authoritative certifications such as ISO 9001, ISO 14001, and IATF 16949, building a solid foundation for quality from R&D to production and providing strong support for the high quality and reliability of our products.

ISO 9001 Quality Management

A globally recognized standard for quality management, covering standardized control of all processes to ensure stable and controllable product quality through continuous improvement.

ISO 14001 Environmental Management

Committed to green and sustainable development, controlling environmental impacts in production to achieve energy conservation and eco-friendly manufacturing.

IATF 16949 Automotive Certification

A rigorous standard for the automotive supply chain, covering design and production to meet high safety and reliability requirements.

RoHS Environmental Compliance

Strictly limits hazardous substances like lead and mercury, complying with global environmental access requirements for green products.

Software Enterprise Certification

Possesses independent core software R&D capabilities and IP, with leading hardware-software integration capabilities in the industry.





THANK YOU

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