2025

KOONEW

Backup Your Digital Life
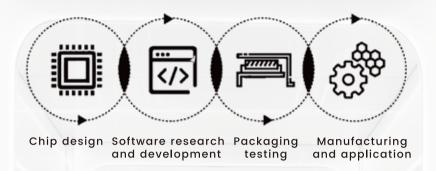
K Corporate vision
Backup Your Digital Life

CONTENTS

COMPANY INTRODUCTION

Chip design | Software research and development | Packaging testing | Manufacturing and application

Hunan Kuniu Storage Technology Co., Ltd. was founded in 2021 and is headquartered in the Xiangtan Comprehensive Bonded Zone in Hunan, China.

The company's founder and team have been operating in the storage industry for many years, possessing professional knowledge in product design, chip testing, packaging manufacturing, and product assembly. We are committed to becoming a leading expert in storage product manufacturing in China.

The company has an advanced factory for storage chip packaging, with global marketing centers established inNanshan, Shenzhen, and Taiwan, as well as a global logistics center in Hong Kong, China.

We have strategically laid out the entire industry chain for storage product design, chip testing, packaging manufacturing, and module manufacturing.

The company offers a wide range of products, including flash BGA, solid-state drives (SSD), flash memory cards.and UsB flash drives. Among them, solid-state drives and flash memory cards are the main product categories of NAND Flash, accounting for over 85% of the NAND Flash market. Our products are widely used in downstream industries such as smartphones, tablets, computers, network communication devices, wearable devices, IoT hardware, security monitoring, industrial control, automotive electronics, as well as personal mobile storage andother fields.

BUSINESS SERVICES

20+
YEARS EXPERIENCE

In the storage industry, we have been deeply rooted for over 20 years, Our company has a research and development team composed of senior professionalsin the industry, with strong technical strength and richindustry experlence.

15000+
FACTORY

The factory has a three-story building with an area of over 15,000 square meters, more than 130 skilledworkers, a team of experienced engineers, and a wellequipped QA and oc staff.

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SUBSIDIARIES

The Kuniu Group has established 4 independent subsidiaries in Shenzhen, Hunan, and Hong Kong respectively to meet the growing business demands

30+
INDUSTRIES SERVED

Our product quality is excellent and has been successfully exported to over 30 countries and regionsworldwide, We prioritize customer satisfaction andalways pay attention to customer needs and feedback.

OUR APPLICATION AREAS

The application fileds of storage products are very wide,they have almost penetrated into all industries and fields.

| Smart Device Storage | Consumer Electronics | Automotive | Security Monitoring |

| ISO Certificates | CE | FCC | ROHS |

PRODUCTION LINES

PCIe 3.0SSD
KN20003.0128GB

Product Features:

● Use the original factory Good Die self-sealing particles
● SSD sequential read/write up to 3500MB/s
● Intelligent error correction with real-time device status
   monitoring
● High Endurance (Total Bytes Written) 1200TBW, and sustained
   peak performance
● Dual temperature control with minimal lag, guaranteeing
   reliable operation

Product Applications:

Laptops, Desktop PCs

Properties	Model	KN20003.0128GB
	Capacity	128GB
	Interface	M.2
	Protocol Standard	PCIe 3.0×4,NVMe 1.4
	Flash Memory Type	TLC/QLC
	Size	M.22280
	Supported Features	HMB,SLC Cache,LDPC,TRIM,SMART,GC,etc
Performance	Sequential Read/Write	Up to 3500/3000MB/s
	Random Read/Write	Up to 600/400KIOPS
Reliability	Maximum Bytes Written(TBW)	1200TBW
	MTBF (OperatingTime)	1.5 million hours
	Warranty	3
Environment	Operating Temperature	0℃-70℃
	Storage Temperature	-40℃-85℃
	Operating Voltage	3.3V±5%
	Power Consumption	3.5W

PCIe 4.0SSD

KN20004.02TB

Product Features:

● Use the original factory Good Die self-sealing particles
● SSD sequential read/write up to 7400MB/s
● Intelligent error correction with real-time device status monitoring
● High Endurance(Total Bytes Written) 1200TBW, and sustained peak performance
● Dual temperature control with minimal lag, guaranteeing reliable operation

Product Applications:

High-Performance Computers, Laptops, Desktop PCs

Category	Parameter	Value
Properties	Model	KN20004.02TB
	Capacity	2048GB
	Interface	M.2
	Protocol Standard	PCIe 4.0×4,NVMe 2.0
	Flash Memory Type	TLC/QLC
	Size	M.22280/2242/2230
	Supported Features	HMB,LDPC,TRIM,SMART,GC,WearLeveling,etc
Performance	Sequential Read/Write	Up to 7400/6500MB/s
	Random Read/Write	Up to 930/1080K IOPS
Reliability	Maximum Bytes Written(TBW)	2400TBW
	MTBF (OperatingTime)	1.5 million hours
	Warranty	3
Environment	Operating Temperature	0℃-70℃
	Storage Temperature	-40℃-85℃
	Operating Voltage	3.3V±5%
	Power Consumption	4W

Portable SSD

KN4001128GB KN4002128GB

Product Features:

- Equipped with high-speed USB 3.2 Gen2x2 interface
- Optional massive storage up to 4TB
- High-speed controller chip for portable hard drive
- Fast transfer performance, with sequential read speeds up to 2000 MB/s
- Suitable for various data backup scenarios
- Tested under multiple rigorous conditions, ensuring high reliability and compatibility

Product Applications:

Data backup

Properties	Model	KN4001128GB/KN4002128GB
	Capacity	128GB-4TB
	Interface	USB 3.2 Gen2×2 Type-C
Performance	Sequential Read Speed	Up to 2000 MB/s
	Sequential Write Speed	Up to 1800 MB/s
Environment	Operating Temperature	0℃-70℃
	Operating Voltage	5V

Micro Portable SSD

KN3001128GB KN3003128GB KN3002128GB KN3004128GB

Product Features:

● Dual USB-A and Type-C interfaces
● High-speed USB 3.2 Gen2 interface
● Optional massive storage up to 2TB
● Compact and portable design, keeping your data on the go
● Fast transfer performance, with sequential read speeds up to 1000 MB/s and sequential write speeds up to 950MB/S
● Tested under multiple rigorous conditions, ensuring high reliability and compatibility

Product Applications:

Laptops, All-in-One Computers, Gaming Devices, Main Drives

Properties	Model	KN3001128GB/KN3003128GB/KN3002128GB/KN3004128GB	
	Capacity	128GB-2TB	
	Interface	USB 3.2 Gen2×1 / USB-A + Type-C	
Performance	Sequential Read Speed	Up to 1000 MB/s	
	Sequential Write Speed	Up to 950 MB/s	
Environment	Operating Temperature	0℃-70℃	
	Operating Voltage	5V	

SATA3 SSD MC500

KN1000128GB   KNM100128GB KNM200256GB

Product Features:

- Use the original factory Good Diese If-sealing particles
- SSD sequential read/write up to 560MB/s
- Intelligent error correction with real-time device status monitoring
- High Endurance (Total Bytes Written) 1200TBW, and sustained peak performance
- Dual temperature control with minimal lag, guaranteeing reliable operation

Product Applications:

Laptops, Desktop PCs

		KN1000128GB	KNM100128GB	KNM200256GB
Properties	Model	KN1000128GB	KNM100128GB	KNM200256GB
	Capacity	128GB	128GB	256GB
	Interface	SATA	SATA	SATA
	Protocol Standard	SATA3	SATA3	SATA3
	Flash Memory Type	TLC/QLC	TLC/QLC	TLC/QLC
	Size	2.5inch 7mm/mSATA	2.5inch 7mm/mSATA	2.5inch 7mm/mSATA
	Supported Features	SLCCache, LDPC, TRIM, SMART, GC, Wear Leveling, etc	SLCCache, LDPC, TRIM, SMART, GC, Wear Leveling, etc	SLCCache, LDPC, TRIM, SMART, GC, Wear Leveling, etc
Performance	Sequential Read/Write	Up to 560/515MB/s	Up to 560/515MB/s	Up to 560/515MB/s
	Random Read/Write	Up to 95/70K IOPS	Up to 95/70K IOPS	Up to 95/70K IOPS
Reliability	Maximum Bytes Written(TBW)	1200TBW	1200TBW	1200TBW
	MTBF (OperatingTime)	1.5 million hours	1.5 million hours	1.5million hours
	Warranty	3	3	3
Environment	Operating Temperature	0℃-70℃	0℃-70℃	0℃-70℃
	Storage Temperature	-40℃-80℃	-40℃-80℃	-40℃-80℃
	Operating Voltage	M.2:3.3V±5% SATA3:5.0V±5%	M.2:3.3V±5% SATA3:5.0V±5%	M.2:3.3V±5% SATA3:5.0V±5%
	Power Consumption	1.6W	1.6W	1.6W

SD/Micro SD Card

KN5000128GB

Product Features:

● Up to 512GB large storage capacity available
● Next-generation A2 performance for faster loading
● Tested under multiple rigorous conditions, ensuring high reliability and compatibility
● Waterproof, shockproof, vibration-resistant, and X-ray-proof design
● High-speed read/write performance, with sequential read speeds up to 170 MB/s and sequential write speeds up to 150 MB/s

Product Applications:

Laptops, PCs, Gaming Devices, Main Drives, Etc

Properties	Model	KN5000128GB
	Capacity	4GB-512GB
	Interface	SD 6.1
	Speed Level	16GB:V10/U1/C10; 32GB:V10/A1/C10; 64GB~512GB:V30/A1/C10
Performance	Sequential Read Speed	Up to 170 MB/s
	Sequental Write Speed	Up to 150 MB/s
Environment	Operating Temperature	0℃-70℃
	Storage Temperature	-25℃-85℃
	Operating Voltage	2.7V-3.6V

UDP / MUDP2.0 /3.0
KN6000128GB

Product Features:

- Up to 128GB large storage capacity available
- Next-generation A2 performance for faster loading
- Tested under multiple rigorous conditions, ensuring high reliability and compatibility
- Waterproof, shockproof, vibration-resistant, and X-ray-proof design
- High-speed read/write performance, with sequential read speeds up to 170 MB/s and sequential write speeds up to 150 MB/s

Product Applications:

Laptops, PCs, Vehicle-mounted, Television, Etc

Properties	Model	KN6000128GB
	Capacity	256MB~128GB
	Interface	USB; OTG; Type-C; Micro Type-C
	Chip	A-Class Flash Chip
Performance	Sequential Read Speed	Up to 170 MB/s
	Sequential Write Speed	Up to 150 MB/s
	Functions	Data Storage,Storage Carrier
Environment	Operating Temperature	0℃~70℃
	Storage Temperature	-25℃~85℃
	Operating Voltage	2.7V~3.6V

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UDIMM(Unbuffered Dual In-Line Memory Module)

KN700016004G

Product Features:

● Complies with JEDEC standards
● Built with high-quality DRAM components
● Stable performance and broad compatibility
● Low latency, high speed, and high efficiency
● RoHS compliant

Product Applications:

Desktop Computers, Industrial PCs, Internet Terminal Devices

	Model	KN700016004G
	DRAM Type	DDR3
	Capacity	4GB
Properties	Timing	22
	Pin	288
	Rank	1 Rank
	Product Dimension(mm)	133.35×31.25×2.6max
Performance	Transmission Rate	1,600
Environment	Operating Voltage	1.5V
	Operating Temperature	0℃-85℃

UDIMM(Unbuffered Dual In-Line Memory Module)

KN800026668G   KN8000266616G   KN8000320032G

Product Features:

- Complies with JEDEC standards
- Built with high-quality DRAM components
- Stable performance and broad compatibility
- Low latency, high speed, and high efficiency
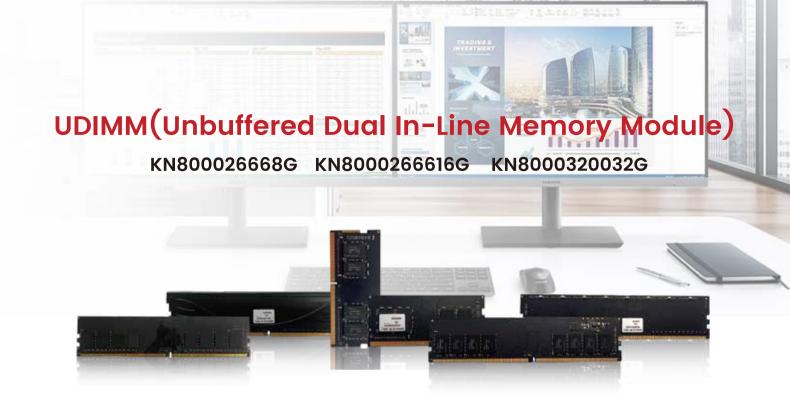- RoHS compliant

Product Applications:

Desktop Computers, Industrial PCs, Internet Terminal Devices

	Model	KN800026668G	KN8000266616G	KN8000320032G
Properties	DRAM Type	DDR4	DDR4	DDR4
	Capacity	8GB	16GB	32GB
	Timing	22	22	22
	Pin	288	288	288
	Rank	1 Rank	1 Rank	1 Rank
	Product Dimension(mm)	133.35×31.25×2.6max	133.35×31.25×2.6max	133.35×31.25×2.6max
Performance	Transmission Rate	2,666	2,666	3,200
Environment	Operating Voltage	1.2V	1.2V	1.2V
	Operating Temperature	0℃-85℃	0℃-85℃	0℃-85℃

UDIMM(Unbuffered Dual In-Line Memory Module)

KN9000480016G　KN9000480032G　KN9000600032G

Product Features:

- Complies with JEDEC standards
- Built with high-quality DRAM components
- Stable performance and broad compatibility
- Low latency, high speed, and high efficiency
- RoHS compliant

Product Applications:

Desktop Computers, Industrial PCs, Internet Terminal Devices

	Model	KN9000480016G	KN9000480032G	KN9000600032G
Properties	DRAM Type	DDR5	DDR5	DDR5
	Capacity	16GB	32GB	32GB
	Timing	22	22	22
	Pin	288	288	288
	Rank	1 Rank	1 Rank	1 Rank
	Product Dimension(mm)	133.35×31.25×2.6max	133.35×31.25×2.6max	133.35×31.25×2.6max
Performance	Transmission Rate	4,800	4,800	6,000
Environment	Operating Voltage	1.1V	1.1V	1.25V
	Operating Temperature	0℃-85℃	0℃-85℃	0℃-85℃

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KOONEW

Backup Your Digital Life

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