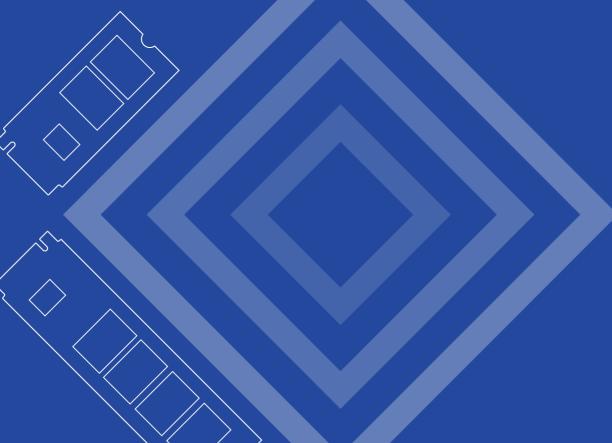


ONE-STOP STORAGE SOLUTION

**GUDGA Product Manual** 





SHENZHEN XINCHITAI TECHNOLOGY CO., LTD.

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#### **COMPANY PROFILE**

**DEVELOPMENT HISTORY** 

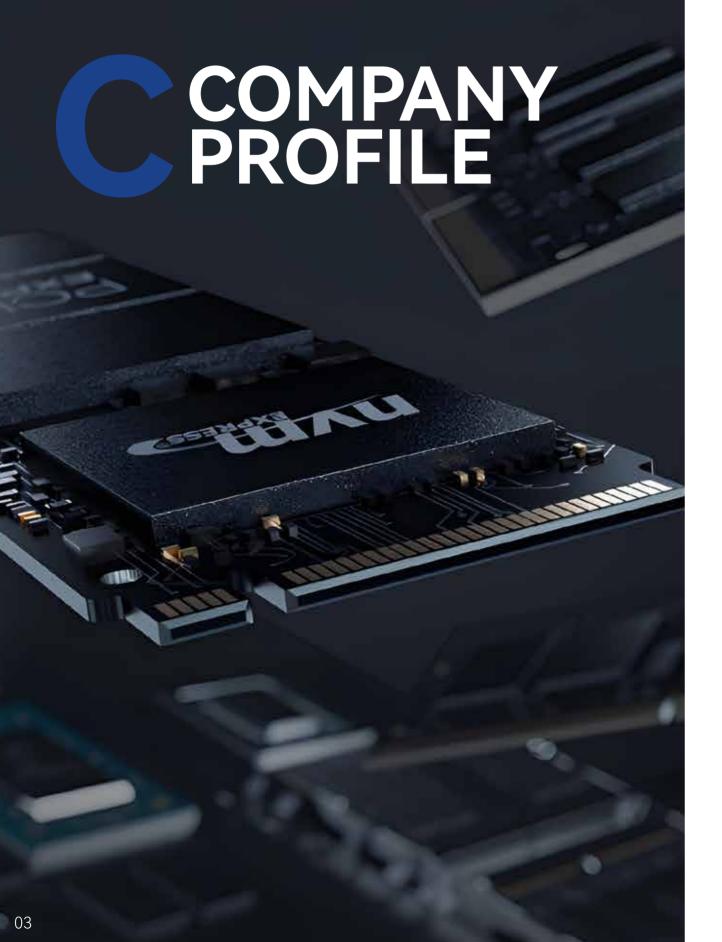
**BRAND ADVANTAGES** 

**CONSUMER-GRADE SSD** 

**INDUSTRIAL-GRADE SSD** 

WIDE-TEMPERATURE SSD

CONTENTS



#### SHENZHEN XINCHITAI TECHNOLOGY CO.,LTD.

- Shenzhen Xinchitai Technology Co., Ltd. was established in 2014. It is a national high-tech storage enterprise that integrates research and development, manufacturing, sales, and technical services of solid-state drives. Its products and services cover solid-state drives, memory modules, DOM electronic disks, portable solid-state drives, etc. It is committed to providing industries and individual with standardized, featured and customized SSD storage product services.
- Based on strong solid-state storage technology, the company has introduced multiple fully automatic SMT equipment and has strong production and research and development capabilities. It can provide customers with personalized OEM, ODM and other services according to their different requirements.
- The company adheres to the business philosophy of "striving for excellence and creating perfection" throughout the entire process of product production. It uses advanced professional manufacturing equipment, selects high-quality materials, introduces advanced production processes and technologies, and achieves the characteristics of complete product specifications, diverse varieties, and reasonable applicability.
- At present, products are widely used in tablet computers, cars, DIY installations, industrial control, game consoles, thin client, advertising machines, medical equipment, automation equipment and other fields.
- Our independently developed SSD and memory have been exported to countries and regions such as Europe, the United States, Japan, and South Korea, and have gained good customer reputation and market feedback.
- In order to master cutting-edge technology, standards, and industry trends, the company collaborates with multiple related enterprises and institutions domestic and abroad for exchange and learning, continuously improving its product quality and services, and striving to provide customers with advanced, standardized, and reliable high-quality products.
- Customer satisfaction is our unremitting pursuit. The company advocates a
  pragmatic style, down-to-earth spirit, excellence in work style, quality as the
  foundation, honest management, and enterprising spirit. We are committed to
  building a national brand, producing reliable products, and ensuring safe
  storage!

## DEVELOPMENT HISTORY



# BRAND ADVANTAGE





#### **Customized Service**

- •BOM
- PCBA
- Software
- Labels and packaging



#### **Quality Control**

- High temp. RDT/BIT test
- · High temp. data retention test
- Compatibility test
- Vabration test
- Industrial quality standard
- Strictly QA/QC/FQC/QQC process



#### **Professional Team**

- •Experiences R&D team
- •Creative design team
- •International elite management team



#### **Production Integration**

- Equipped with a series of integrated production and testing equipment
- AOI (Automatic Optical Inspection),
- High and low temperature testing
- PLP (Power Loss Protection)







Model	GS-XXX
Form Factor	2.5 inch SATA
Size	100x70x7mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB/2TB/4TB
R&W Speed	Up to 550/500MB/s
Latency	0.07ms
Operating Temp.	0°C~+70°C
Voltage	5V±5%
Storage Temp.	-20°C~+75°C



Model	GSL-XXX
Form Factor	2.5 inch SATA
Size	100x70x7mm
Protocol	SATA III 6Gbps
Capacity	128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/520MB/s
Latency	0.07ms
Operating Temp.	0°C~+70°C
Voltage	5V±5%
Storage Temp.	-20°C~+75°C



Model	GS-XXX
Form Factor	2.5 inch SATA
Size	100x70x7mm
Protocol	SATA III 6Gbps
Capacity	120GB/240GB/480GB/960GB
R&W Speed	Up to 550/500MB/s
Latency	0.07ms
Operating Temp.	0°C~+70°C
Voltage	5V±5%
Storage Temp.	-20°C~+75°C









GXF-XXX-2280-PRO
M.2 NVMe
80x22x2.1mm
PCle Gen 4x4, NVMe 1.4
512GB/1TB/2TB/4TB
Up to 7450/6600MB/s
0.014ms
0°C~+70°C
3.3V±5%
-20°C~+75°C



Model	GXF-XXX-2280
Form Factor	M.2 NVMe
Size	80x22x2.1mm
Protocol	PCle Gen 4x4, NVMe 1.4
Capacity	512GB/1TB/2TB
R&W Speed	Up to 5000/4500MB/s
Latency	0.016ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C







GXF-S-XXX-2280-PRO
M.2 NVMe
80x22x2.1mm
PCle Gen 4x4, NVMe 1.4
512GB/1TB/2TB/4TB
Up to 7300/6600MB/s
0.014ms
0°C~+70°C
3.3V±5%
-20°C~+75°C



Model	GXF-Q-XXX-2280-PRO
Form Factor	M.2 NVMe
Size	80x22x2.1mm
Protocol	PCle Gen 4x4, NVMe 1.4
Capacity	512GB/1TB/2TB/4TB
R&W Speed	Up to 7200/6600MB/s
Latency	0.014ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



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Model	GXF-R-XXX-2280
Form Factor	M.2 NVMe
Size	80x22x2.1mm
Protocol	PCle Gen 4x4, NVMe 1.4
Capacity	512GB/1TB/2TB
R&W Speed	Up to 5000/4500MB/s
Latency	0.016ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



Model	GXF-XXX-2242-PRO
Form Factor	M.2 NVMe
Size	42x22x3.5mm
Protocol	PCle Gen 4x4, NVMe 1.4
Capacity	512GB/1TB/2TB
R&W Speed	Up to 7450/6600MB/s
Latency	0.012ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C











GXF-XXX-2242
M.2 NVMe
42x22x3.5mm
PCle Gen 4x4, NVMe 1.4
512GB/1TB
Up to 4800/4500MB/s
0.021ms
0°C~+70°C
3.3V±5%
-20°C~+75°C



Model	GVY-XXX-2280
Form Factor	M.2 NVMe
Size	80x22x2.1mm
Protocol	PCle Gen 3x4, NVMe 1.3
Capacity	128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 3500/3000MB/s
Latency	0.027ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



NVMe
2x2.1mm
Gen 3x4, NVMe 1.3
B/1TB/2TB
o 3500/3100MB/s
óms
+70°C
±5%



Model	GVR-XXX-2280
Form Factor	M.2 NVMe
Size	80x22x2.1mm
Protocol	PCle Gen 3x4, NVMe 1.3
Capacity	256GB/512GB/1TB/2TB
R&W Speed	Up to 3200/2800MB/s
Latency	0.03ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C











GV-XXX-2280
M.2 NVMe
80x22x2.1mm
PCle Gen 3x4, NVMe 1.3
128GB/256GB/512GB/1TB
Up to 2200/2000MB/s
0.036ms
0°C~+70°C
3.3V±5%
-20°C~+75°C



Model	GVX-XXX-2242
Form Factor	M.2 NVMe
Size	42x22x3.5mm
Protocol	PCle Gen 3x4, NVMe 1.3
Capacity	128GB/256GB/512GB/1TB
R&W Speed	Up to 3500/3000MB/s
Latency	0.023ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



Model	GV-XXX-2242
Form Factor	M.2 NVMe
Size	42x22x3.5mm
Protocol	PCle Gen 3x2, NVMe 1.3
Capacity	128GB/256GB/512GB/1TB
R&W Speed	Up to 1200/1000MB/s
Latency	0.083ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



Model	GVF-XXX-2230
Form Factor	M.2 NVMe
Size	30x22x2.6mm
Protocol	PCle Gen 4x4, NVMe 1.4
Capacity	512GB/1TB
R&W Speed	Up to 5000/4500MB/s
Latency	0.021ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20℃~+75℃











Model	GV-XXX-2230
Form Factor	M.2 NVMe
Size	30x22x2.6mm
Protocol	PCle Gen 3x4, NVMe 1.3
Capacity	512GB/1TB
R&W Speed	Up to 3200/2500MB/s
Latency	0.03ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C

Consumer-grade solid-state drives (SSD) are widely applied in various fields such as personal computers, gaming devices, mobile devices, home entertainment equipment, storage devices, DIY computer assembly, productivity tools, and vehicle-mounted systems. Their advantages lie in enhancing the loading speed of systems and applications, improving overall performance, reducing energy consumption, increasing device response speed and data processing capacity. Therefore, SSDs are gradually replacing traditional mechanical hard drives and becoming the mainstream storage solution, providing users with a faster and more reliable storage experience.



Model	GN-XXX-2280
Form Factor	M.2 SATA
Size	80x22x2.1mm
Protocol	SATA III 6Gbps
Capacity	128GB/256GB/512GB/1TB/2TB/4TB
R&W Speed	Up to 550/500MB/s
Latency	0.06ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



GN-XXX-2242
M.2 SATA
42x22x3.5mm
SATA III 6Gbps
128GB/256GB/512GB/1TB/2TB
Up to 550/500MB/s
0.058ms
0°C~+70°C
3.3V±5%
-20°C~+75°C

### ▶▶▶ mSATA SSD





Model	GM-XXX
Form Factor	mSATA
Size	50x30x3.5mm
Protocol	SATA III 6Gbps
Capacity	128GB/256GB/512GB/1TB/2TB/4TB
R&W Speed	Up to 550/500MB/s
Latency	0.056ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C



Model	GM-XXX
Form Factor	mSATA
Size	30x25x3.5mm
Protocol	SATA III 6Gbps
Capacity	128GB/256GB/512GB/1TB
R&W Speed	Up to 550/500MB/s
Latency	0.05ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-20°C~+75°C











Model	DDR3 U-DIMM
Application	Desktop
Interface	240pin
Capacity	4GB/8GB
Frequency	1333MHz/1600MHz
Voltage	1.35V/1.5V
Operating Temp.	0°C~+70°C
Storage Temp.	-20°C~+75°C



Model	DDR4 U-DIMM
Application	Desktop
Interface	288pin
Capacity	4GB/8GB/16GB/32GB
Frequency	2666MHz/3200MHz
Voltage	1.2V/1.35V
Operating Temp.	0°C~+70°C
Storage Temp.	-20°C~+75°C



Model	DDR3 SO-DIMM
Application	Laptop
Interface	204pin
Capacity	2GB/4GB/8GB
Frequency	1333MHz/1600MHz
Voltage	1.35V/1.5V
Operating Temp.	0°C~+70°C
Storage Temp.	-20°C~+75°C



Model	DDR4 SO-DIMM
Application	Laptop
Interface	260pin
Capacity	4GB/8GB/16GB/32GB
Frequency	2666MHz/3200MHz
Voltage	1.2V
Operating Temp.	0°C~+70°C
Storage Temp.	-20°C~+75°C











Model	DDR4 Heatsink
Application	Desktop
Interface	288pin
Capacity	8GB/16GB/32GB
Frequency	2666/3200/3600/4000MHz
Voltage	1.2V/1.35V
Operating Temp.	0°C~+70°C
Storage Temp.	-20°C~+75°C



Model	DDR5 U-DIMM
Application	Desktop
Interface	288pin
Capacity	8GB/16GB/32GB
Frequency	4800MHz/5600MHz/6000MHz
Voltage	1.1V/1.2V/1.25V
Operating Temp.	0°C~+70°C
Storage Temp.	-20℃~+75℃



DDR5 Heatsink
Desktop
288pin
8GB/16GB/32GB
4800/5600/6000/6400/6800MHz
1.1V/1.2V/1.25V/1.3V/1.35V
0°C~+70°C
-20°C~+75°C



## >>> Industrial Grade SSD















Model	GIT-XXX-2242
Form Factor	M.2 SATA
Size	42x22x3.5mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-40°C~+85°C



Model	GIM-XXX
Form Factor	mSATA
Size	50x30x3.5mm
Protocol	SATA III 6Gbps
Capacity	32GB/64GB/128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-40°C~+85°C



Model	GIT-XXX-2280
Form Factor	M.2 SATA
Size	80x22x2.1mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	0°C~+70°C
Voltage	3.3V±5%
Storage Temp.	-40°C~+85°C

## >>> Industrial Grade Ram 😩 🗒 🚱











Model	GIS-XXX
Form Factor	ATA/ATAPI-7
Size	100x70x7mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	0°C~+70°C
Voltage	5V±5%
Storage Temp.	-40°C~+85°C



Model	DDR4 SO-DIMM
Application	Laptop
Interface	260pin
Capacity	4GB/8GB/16GB/32GB
Frequency	2666MHz/3200MHz
Voltage	1.2V
Operating Temp.	0°C~+70°C
Storage Temp.	-40°C~+85°C



Model	GPA25-XXX
Form Factor	ATA/ATAPI-7
Size	100x70x7mm
Protocol	IDE PATA
Capacity	8GB/16GB/32GB/64GB/128GB
R&W Speed	Up to 107/56MB/s
Latency	0.2ms
Operating Temp.	0°C~+70°C
Voltage	5V±5%
Storage Temp.	-40°C~+85°C



Model	DDR3 SO-DIMM
Application	Laptop
Interface	204pin
Capacity	2GB/4GB/8GB
Frequency	1333MHz/1600MHz
Voltage	1.35V/1.5V
Operating Temp.	0°C~+70°C
Storage Temp.	-40°C~+85°C
otorage remp.	10 0 00 0





Model	GNE-XXX-WXX
Form Factor	M.2 NVMe
Size	80x22x2.1mm
Protocol	PCle Gen 3x4, NVMe 1.3
Capacity	128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 3500/3200MB/s
Latency	0.022ms
Operating Temp.	-20°C~+75°C / -40°C~+85°C
Voltage	3.3V±5%
Storage Temp.	-40°C~+85°C



Model	GIM-XXX-WXX
Form Factor	mSATA
Size	50x30x3.5mm
Protocol	SATA III 6Gbps
Capacity	32GB/64GB/128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	-20°C~+75°C / -40°C~+85°C
Voltage	3.3V±5%
Storage Temp.	-40°C~+85°C















Model	GIT-XXX-WXX
Form Factor	M.2 SATA
Size	80x22x2.1mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	-20°C~+75°C / -40°C~+85°C
Voltage	5V±5%
Storage Temp.	-40°C~+85°C



Model	GIS-XXX-WXX
Form Factor	2.5 inch SATA
Size	100x70x7mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB/2TB/2TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	-20°C~+75°C / -40°C~+85°C
Voltage	5V±5%
Storage Temp.	-40°C~+85°C



Model	GIT-XXX-WXX
Form Factor	M.2 SATA
Size	42x22x3.5mm
Protocol	SATA III 6Gbps
Capacity	64GB/128GB/256GB/512GB/1TB/2TB
R&W Speed	Up to 560/500MB/s
Latency	0.055ms
Operating Temp.	-20°C~+75°C / -40°C~+85°C
Voltage	5V±5%
Storage Temp.	-40°C~+85°C



Model	GPA25-XXX-WXX
Form Factor	ATA/ATAPI-7
Size	100x70x7mm
Protocol	IDE PATA
Capacity	8GB/16GB/32GB/64GB/128GB
R&W Speed	Up to 107/56MB/s
Latency	0.2ms
Operating Temp.	-20°C~+75°C / -40°C~+85°C
Voltage	5V±5%
Storage Temp.	-40°C~+85°C

#### **>>>** CERTIFICATE

Provide customers with professional solutions and services

















### **Industry Application Fields**

 Industrial Automation
 Server
 Transportation

 Security monitoring
 Financial sector
 AloT/loT

 Medical
 Public demand, etc.
 • • • • • • •

Our product lines cover various capacities and specifications to meet the needs of different users. From entry-level basic storage solutions to high-performance data center applications, we have corresponding products. Our global network ensures that customers can obtain our high-quality products and services wherever they are.

