

Kimtigo 金泰克

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KT-B900 Product Brochure

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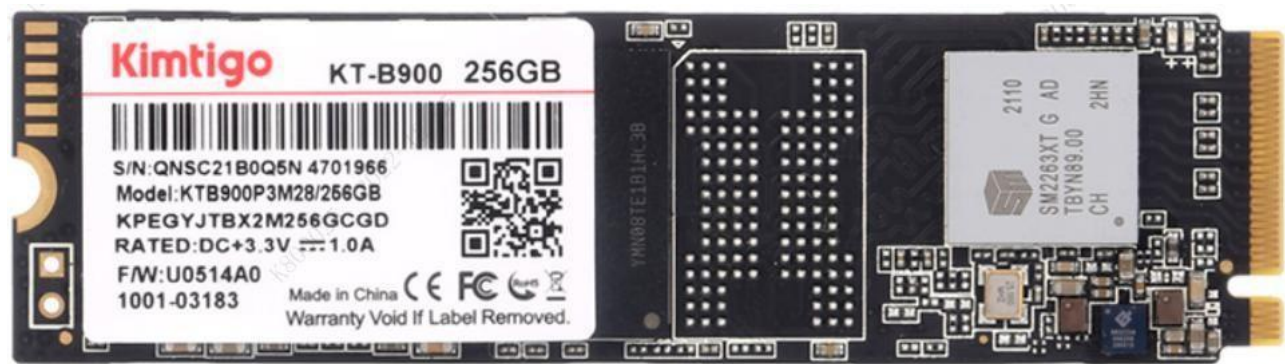
KT-B900 2.5" SSD



- Using original chipsets, it precisely targets the industry market and creates high-quality SSDs.
- A variety of models and specifications are specially designed for storage applications in harsh environments to meet the needs of different application environments.
- The power-off protection mechanism ensures that the SSD guarantees data integrity and prevents data loss in the event of an abnormal power-off.
- Enhanced data recovery architecture after power loss to ensure data integrity of SSD after abnormal power failure
- The application of wear leveling technology (Wear Leveling) averages the number of overwrites of each flash memory block, effectively slowing down performance degradation and wear-out probability;
- Very small WA (write amplification factor), reducing excessive flash erasing times, greatly prolonging the service life of SSD;
- Support the Devslp function, which can greatly save the power consumption of the PC in the standby state, and greatly extend the standby time of the PC;
- Support Secure Erase and Smart functions;

Model	KT-B900
Size	2.5*7mm(69.9mm x 100mm x 7mm)
Interface	SATA3(compatible SATA2、SATA1)
Flash	3D
Capacity	32GB-1TB
Performance	Sequential Read:UP to 520MB/s Sequential Write:UP to 500MB/s 4K Random Read:UP to 80000 IOPS 4K Random Write:UP to 70000 IOPS
Operating Voltage	5V±5%
Operating Temperature	0-70°C
MTBF	1,200,000 Hours
TBW	32GB:20TB 64GB:40TB 128GB:80TB 256GB:160TB 512GB:320TB 1TB: 640TB
Application	Industrial/Commercial PC/OPS etc

KT-B900 M.2 NVMe SSD



- Support NVMe protocol, with fast transmission speed;
- The application of wear leveling technology (Wear Leveling) averages the number of overwrites of each flash memory block, effectively slowing down performance degradation and wear-out probability;
- Very small WA (write amplification factor), reducing excessive flash erasing times, greatly prolonging the service life of SSD;
- Support the TRIM command of Windows, which can optimize the writing operation and maintain the same high efficiency after long-term use;
- Support L0, L1 power mode, standby power consumption is less than 0.35W, greatly saving the power consumption of the system in standby state;
- This product is designed for users who have extreme requirements on hard disk performance and bandwidth, and provides users with a good user experience.

Model	KT-B900
Size	M.2 2280(22*80*mm)
Interface	PCIe 3.0
Flash	3D
Capacity	128GB-1TB
Performance	Sequential Read:UP to 2500MB/s Sequential Write:UP to 1800MB/s 4K Random Read:UP to 240K IOPS 4K Random Write:UP to 290K IOPS
Operating Voltage	3.3V±5%
Operating Temperature	0-70°C
MTBF	1,500,000 Hours
TBW	128GB:100TB 256GB:150TB 512GB:300TB 1TB: 600TB
Application	Industrial/Commercial PC/OPS etc

KT-B900 M.2 2280 SATA SSD



- Small size and fast transmission speed;
- The application of wear leveling technology (Wear Leveling) averages the number of overwrites of each flash memory block, effectively slowing down performance degradation and wear-out probability;
- Very small WA (write amplification factor), reducing excessive flash erasure times, greatly prolonging the service life of SSD;
- Support the GC command of Windows, which can automatically optimize the internal space of the SSD, realize the optimal writing operation, and maintain the same high efficiency after long-term use;
- Support Windows S.M.A.R.T command, automatically detect the working status of SSD, give timely warning, and reduce unnecessary losses.

Model	KT-B900
Size	M.2 2280(22*80*mm)
Interface	SATA3(compatible SATA2、SATA1)
Flash	3D
Capacity	64GB-1TB
Performance	Sequential Read:UP to 520MB/s
	Sequential Write:UP to 500MB/s
	4K Random Read:UP to 60K IOPS
	4K Random Write:UP to 70K IOPS
Operating Voltage	3.3V±5%
Operating Temperature	0-70°C
MTBF	1,200,000 Hours
TBW	64GB:22TB 128GB:45TB 256GB:90TB 512GB:180TB 1TB: 360TB
Application	Industrial/Commercial PC/OPS etc

KT-B900 M.2 2242/2260 SATA SSD



- M.2 standard size, suitable for ultrabooks and other application environments, a variety of specifications are available to meet the needs of different application scenarios;
- The application of wear leveling technology (Wear Leveling) averages the number of overwrites of each flash memory block, effectively slowing down performance degradation and wear-out probability;
- Support the TRIM command of Windows, which can optimize the writing operation and maintain the same high efficiency after long-term use;
- Support the Devslp function, which can greatly save the power consumption of the PC in standby mode, greatly
- Greatly prolong the standby time of PC;
- Support Secure Erase and Smart functions;

Model	KT-B900
Size	M.2 2242(22*42*mm) M.2 2260(22*60*mm)
Interface	SATA3(compatible SATA2、SATA1)
Flash	3D
Capacity	64GB-1TB
Performance	Sequential Read:UP to 520MB/s
	Sequential Write:UP to 500MB/s
	4K Random Read:UP to 70K IOPS
	4K Random Write:UP to 70K IOPS
Operating Voltage	3.3V±5%
Operating Temperature	0-70°C
MTBF	1,200,000 Hours
TBW	64GB:22TB 128GB:45TB 256GB:90TB 512GB:180TB 1TB: 360TB
Application	Industrial/Commercial PC/OPS etc

KT-B900 mSATA SSD



- The application of wear leveling technology (Wear Leveling) averages the number of overwrites of each flash memory block, effectively slowing down performance degradation and wear-out probability;
- Very small write amplification factor (WA), reducing excessive flash erasing times, greatly prolonging the service life of SSD;
- Support TRIM command of Windows, which can optimize the writing operation and maintain the same high efficiency after long-term use
- Support the Devslp function, which can greatly save the power consumption of the PC in standby mode and greatly extend the standby time of the PC;
- Support Secure Erase and Smart functions;
- Enhanced data recovery architecture after power loss to ensure data integrity of SSD after abnormal power failure

Model	KT-B900
Size	mSATA(50.8*29.85*mm)
Interface	SATA3(compatible SATA2、SATA1)
Flash	3D
Capacity	64GB-1TB
Performance	Sequential Read:UP to 520MB/s
	Sequential Write:UP to 500MB/s
	4K Random Read:UP to 60K IOPS
	4K Random Write:UP to 70K IOPS
Operating Voltage	3.3V±5%
Operating Temperature	0-70°C
MTBF	1,200,000 Hours
TBW	64GB:22TB
	128GB:45TB
	256GB:90TB
	512GB:180TB
	1TB: 360TB
Application	Industrial/Commercial PC/OPS etc

2.DDR3



- Features:
- Tested and verified by many major motherboard manufacturers, it is 100% compatible with the Intel platform, maintaining ultra-long stability and super-resistant performance;
- Select high-quality particles from international original factories to provide users with convenient caching solutions;
- 100% refer to the JEDEC design specification to ensure the design integrity of the finished product;
- 100% finished products are strictly tested and screened to ensure the best compatibility and stability of products;

DDR3 2GB/4GB/8GB 1600MHz		
Module Type	UDIMM	SODIMM
Capacity	2GB/4GB/8GB	2GB/4GB/8GB
Pin Count	DDR3 240PIN DIMM	DDR3 204PIN So-DIMM
PCB Layers	6layers	8layers
Component Composition	256*8/512*8	
Frequency	1600 MHz	
Bandwidth	PC3 – 12800	
Latency	11-11-11	
Voltage	1.5V	1.5V / 1.35V
Operating Temperature	0°C ~ 85°C	

3.DDR4



- Features:
- Completely follow the JEDEC standard design specifications to meet the full compatibility of the new generation architecture
- Provides lower power consumption of 1.2v, which is 40% lower than DDR3L power consumption
- Selected original granules, through digital-level screening, to create high-quality memory products.
- As the best choice for consumers to upgrade their comprehensive system

DDR4 4G/8G/16G/32G 2400/2666/3200 MHz		
Module Type	UDIMM	SODIMM
Capacity	4G/8G/16G/32G	4G/8G/16G/32G
Pin Count	DDR4 288PIN DIMM	DDR4 260PIN DIMM
PCB Layers	Multi-layer PCB technology, curve gold finger	Multi-layer PCB technology, curve gold finger
DRAM	Micron/Hynix/Samsung/CXMT	
Frequency	2400/2666/3200 MHz	
Bandwidth	PC4-19200/21300/25600	
Latency	15/16/17/19/21	
Voltage	1.2V / 1.35V(XMP)	
Operating Temperature	0°C ~ 85°C	

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