With TOSHIBA
Client SSDs,
Data Center SSDs
and Enterprise SSDs

OWN TOMORROW

SCALE
TODAY

Storage Solutions

TOSHIBA
In 1984, Toshiba developed a new type of semiconductor memory called flash memory.

Some years later in 1987 NAND flash memory was introduced. For many years now, Toshiba storage has been a synonym for innovation and success around the world. By inventing flash technology in 1987, we set new standards for speed, reliability and most importantly for the mobility of electronic devices. The key devices of the digital age.

Today you will find flash technology in almost all of our storage media, not only in SD Cards and USB flash drives, but also in our rapid Client and Enterprise SSDs and many professional applications. This allows people and companies to store, share and spread their ideas wherever they go.
Storage in time

Storage and processing speed has always been an important aspect of all digital processes. As the demand grew, tasks and applications of data processing became more demanding. Many types of devices, once a breakthrough in terms of speed, space and affordability have completely vanished, and are now only of collector’s interest. Just keep in mind the age of the Floppy disc is just two decades ago.

The internet opened a new challenging perspective on storage hardware. As data storage and processing moved from local machines to remote servers, requirements for speed, reliability and capacity grew. Large arrays of SSDs are now fulfilling this task. The increasing demand in low latencies, high densities prove that future storage solutions have to be NAND Flash / SSD based. This is exactly what we are working on.

Why TOSHIBA? Because we focus on your business!

Our quality assurance process is designed to fit your requirements. We understand your critical success factors through constant evaluation, and then make them our own success factors. We always listen to you as our customer, and we deliver technology that is designed specifically to achieve your targets. The result is a broad range of proven storage solutions for professional use that can be seamlessly integrated into your infrastructure. And we always keep cost in mind in order to offer high quality at fair prices. Our dense network of specialized distributors optimizes the availability of our products and services. This gives you certainty that you can rely on fast local service throughout the world. Toshiba Memory and IP solutions enable you to keep your data safe so that you can focus on what really matters: your business.

Partnership is our gold standard

Your metrics are our metrics. The result is a broad range of innovative and proven SSD solutions for professional and private use. Our products are designed to meet your specific needs. In Innovation Engineering, Quality, Cost, Supply, Success, Factors, why Toshiba?

Because we focus on your business!

Our success is based on a firm customer orientation: Your metrics are our metrics. The result is a broad range of innovative and proven SSD solutions for professional and private use. Our products are designed to meet your specific needs.

Innovation Engineering

Quality

Cost

Supply

Success

Factors

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-storage solutions-
Client SSDs

XG6 Series
XG5 / XG5-P Series
BG3 / SG6 Series

Client SSDs offer fast transfer rates, high durability against shock and vibration, and light weight and low power compared to Client HDDs.

Toshiba Client SSDs equip the NAND flash memory and SSD controller developed by Toshiba, and can be applied to a wide range of applications from mobile computing to entry-level servers including security-required systems with SED models, with the product line up of various form factors and interfaces.

The laptop PC is evolving with thin and lightweight design, long battery life and high-performance processing capability. In particular, great efforts are being devoted to enhancing operability so as to realize a more responsive user experience on portable PCs from the human-interface viewpoint. In order to support a range from Ultra-slim clamshell laptop PCs to keyboard-detachable tablets, storage devices need to offer faster transfer rates, shorter access latency, a variety of small form factors, and greater efficiency (lower power consumption) as well as larger capacity. Solid State Drive (SSD) with NAND flash memory is the most suitable storage device for integration on such laptop PC platforms. SSD provides very fast access speed in writing and reading as well as low power consumption. SSD is also thin, compact and very robust against the shock and vibration which portable PCs are likely to experience during operation.

As the first company to develop NAND flash memory, Toshiba has been a leader in the SSD market with its high technologies.

Scale up to 96-layer BiCS FLASH™
OWN TOMORROW

Client SSD
XG6 Series

The new XG6 Series Client SSDs features a PCI Express® (PCIe®) Gen3 x4-Lane and NVM Express™ (NVMe™) interface. With the combination of Toshiba Memory Corporation’s fourth generation BiCS FLASH™ memory technology and SLC cache, the XG6 Series delivers industry-leading sequential write performance of up to 2,960 MB/s in Client SSDs.

Furthermore, the XG6 Series delivers performance of up to 3,180 MB/s sequential read, up to 355,000 random read and 365,000 random write IOPS. In addition to the higher speed, the XG6 Series is also superior to the previous generation XG5 Series in efficiency. The power consumption is maximum 4.7 W in active mode and 3mW during stand-by in the lowest power mode, which makes it suitable for power-sensitive mobile PCs.

The new SSDs will be available in three capacities, 256 GB, 512 GB and 1,024 GB, all on a single-sided M.2 2280-S2 form factor. Self-encrypting drive (SED) models supporting TCG Opal Version 2.01 will also be offered, making the XG6 Series highly suited to a wide range of applications including ultra-mobile PCs that prioritize performance, and server-boot storage in datacenter and enterprise environments.

KEY FEATURES:

- Toshiba 96-layer BiCS FLASH™
- PCIe® Gen3x4L NVMe™
- M.2 2280 single-sided form factor
- TCG Opal 2.01 optional for SED

CAPACITY:

- M.2
  - 1,024 GB
  - 512 GB
  - 256 GB

MAIN APPLICATIONS:

- Ultra-mobile PCs
- Server / storage boot
- Industrial applications

PERFORMANCE:

Read: Up to 3,180 MB/s*
Write: Up to 3,180 MB/s*

* Please check technical specifications for further details.
Client SSD

**XG5 Series**

- Toshiba 64-layer BiCS FLASH™
- PCIe® Gen3*4L NVMe™
- M.2 2280 single-sided
- TCG Opal 2.01 optional for SED

**Main Applications:**
- Thin performance notebook
- Enthusiast desktop / laptop
- Mainstream PC computing
- Server / storage boot

**Performance:**
- Read: Up to 3,000 MB/s*
- Write: Up to 2,100 MB/s*

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**XG5-P Series**

- Toshiba 64-layer BiCS FLASH™
- PCIe® Gen3*4L NVMe™
- M.2 2280 single-sided
- SLC cache
- TCG Opal 2.01 optional for SED

**Main Applications:**
- Work station PCs
- Gaming, enthusiast PC
- Embedded performance driven application
- Read intensive enterprise use

**Performance:**
- Read: Up to 3,000 MB/s*
- Write: Up to 2,200 MB/s*

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**BG3 Series**

- Toshiba 64-layer BiCS FLASH™
- PCIe® Gen3*2L NVMe™
- BGA 1620 single package and M.2 2230 single-sided form factor
- TCG OPAL 2.01 optional for SED

**Main Applications:**
- Ultra-mobile PCs
- 2-in-1 notebook PCs
- IoT/embedded devices
- Server and storage array boot drives

**Performance:**
- Read: Up to 1,500 MB/s*
- Write: Up to 1,000 MB/s*

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**SG6 Series**

- Up to 1,024 GB capacity
- 64-layer, 3-bit-per-cell (TLC) BiCS FLASH™
- SATA Revision 3.3, 6.0 Gbit/s interface
- 2.5-inch and M.2 2280 form factor options
- TCG Opal Version 2.01 (SED model)

**Main Applications:**
- Desktop PCs
- Notebook PCs
- Industrial PCs
- Server and storage array boot drives

**Performance:**
- Read: Up to 550 MB/s*
- Write: Up to 535 MB/s*

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*Please check technical specifications for further details.
Recently, large capacity and high-performance storages are highly required in the cloud computing and Data Center due to the rapidly increasing amount of information and numbers of access. When many people heavily access internet services such as social network services (SNS) or web search engines, they will always expect an instant response from the service. In the corporate on-premise network system and financial trading system, the micro second range of the response time makes a big difference to the business outcome. As an evolution of the enterprise server and storage system, more focus is placed on speed, response time and latency to support large number of SNS user accesses and time-critical business transactions. Then the Enterprise and Data Center SSDs play an important role for the server system to make the transactions faster.

Enterprise SSDs are suitable for high-performance Tier 0 computing, server and storage systems that a high level of performance and reliability. Toshiba Enterprise SSDs equip the NAND flash memory and controller developed by Toshiba and offer high reliability, data protection incorporating power-loss-protection and encryption technology to support enterprise environments and applications. Light weight and low power consumption will make the systems more energy efficient.

Data Center & Enterprise SSDs

Data Center SSD
HK6 DC / HK6 R / HK6 V
CD5 Series
XDS Series

Enterprise SSD
CM5 Series
PM5 Series

<table>
<thead>
<tr>
<th>2.5&quot; SATA and PCI Express M.2 Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Case</strong></td>
</tr>
<tr>
<td>60 GB</td>
</tr>
<tr>
<td>120 GB</td>
</tr>
<tr>
<td>240 GB</td>
</tr>
<tr>
<td>480 GB</td>
</tr>
</tbody>
</table>

**KEY FEATURES:**
- BiCS FLASH™ Gen3 TLC
- <1.0x DWPD (5 years)
- SIE (Cryptographic Erase support)

**CAPACITY:**
- **2.5" Case**

**MAIN APPLICATIONS:**
- Optimized for Data Center workloads in read latency-sensitive applications
- Server, storage flash array and boot drives

**PERFORMANCE:**
- Read: Up to 550 MB/s*
- Write: Up to 500 MB/s*

* Please check technical specifications for further details.

The HK6 Series is a 6 Gbit/s SATA SSD and is available up to 7,680 GB capacity. This read-intensive, latency optimized SSD delivers up to 45,000 random read IOPS and up to 550 MB/s sequential read performance. These performance numbers are more than 400 times better than those of a 15,000 rpm higher performance hard disk drive (HDD). They also represent continued improvements over previous generation SATA SSDs. High reliability, efficient power consumption and the ability to deliver consistent performance are key requirements for modern data centers and storage solutions in cloud environments.
**Data Center SSD**

### CD5 Series

The new CD5 SSD Series in 2.5” cases (15 mm) enable infrastructure managers to address performance and workload demands by offering robust performance and reliability with lower operating power for read-intensive applications such as NoSQL databases, big data analytics and streaming media.

The CD5 NVMe Series supports capacities ranging from 960 GB to 7,680 GB in U.2, delivering up to 500,000 random read IOPS and up to 35,000 random write IOPS and up to 3,140 / 1,890 MB/s sequential read / write performance with in a 9-14W power envelope.

Designed to provide excellent IO consistency, the CD5 include a five-year limited warranty.

**KEY FEATURES:**
- TMC’s latest 64-layer BiCS Gen3 Flash™ Memory
- Up to 7,680 GB of capacity
- PCIe Gen3 x4 single port
- NVMe 1.3 / NVMe-MI 1.1a ready
- Available in 2.5” U.2
- SIE, SED (TCG Opal) optional
- Excellent performance per watt characteristics

**CAPACITY:**

<table>
<thead>
<tr>
<th>2.5” Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>960 GB</td>
</tr>
<tr>
<td>1,920 GB</td>
</tr>
<tr>
<td>3,840 GB</td>
</tr>
<tr>
<td>7,680 GB</td>
</tr>
</tbody>
</table>

**MAIN APPLICATIONS:**
- Private Cloud Data Centers
- Cloud Service Providers
- Web Databases and Business Intelligence
- Content Streaming Services

**PERFORMANCE:**

| Read: Up to 3,140 MB/s* |
| Write: Up to 1,890 MB/s* |

* Please check technical specifications for further details.

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**Data Center SSD**

### XD5 Series

64-layer BiCS FLASH™ Gen3 3D memory paired with an in-house designed controller from the inventors of flash enables high performance and data integrity over a wide range of capacities in a compact, space efficient package. Designed with the high bandwidth PCIe Gen 3.0 interface and utilizing the NVMe 1.3a protocol, the XD5 is built for high performance and low latency in Data Center environments. XD5 NVMe drives can deliver 4x higher read bandwidth per drive than SATA SSDs so you can access your data quicker and reach your performance targets with fewer nodes and devices.

Reduce node downtime and your IT budget with the XD5. The Annualized Failure Rate (AFR) of XD5 is ~5x lower than that of HDDs, resulting in less downtime for servers. Efficiently utilize valuable rack space and power with the XD5 NVMe SSD. Utilizing a compact M.2 22 x 110 mm form factor, the XD5 offers unparalleled storage density in a power efficient 7 W power envelope.

**KEY FEATURES:**
- High performance PCIe Gen3 x4 NVMe SSD for Data Center environments
- Compact M.2 form factor
- Cutting-edge Toshiba 64-layer 3D BiCS FLASH™
- Designed for read-intensive workloads that require high read bandwidth & low latency
- Power Loss Protection (PLP) for greater data protection
- 24 x 7 environments

**CAPACITY:**

<table>
<thead>
<tr>
<th>M.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,840 GB</td>
</tr>
<tr>
<td>1,920 GB</td>
</tr>
</tbody>
</table>

**MAIN APPLICATIONS:**
- Private Cloud Data Centers
- Cloud Service Providers
- Web Databases and Business Intelligence
- Content Streaming Services
- Content Delivery Networks
- Telecommunication Networks

**PERFORMANCE:**

| Read: Up to 2,700 MB/s* |
| Write: Up to 890 MB/s* |

* Please check technical specifications for further details.
Enterprise SSD

CM5 Series

KEY FEATURES:
- TMC’s latest 64-layer BiCS Gen3 Flash™ Memory
- PCIe Gen3 x4 single or dual port
- Available in 2.5” U.2 or HHHL-AIC
- NVMe 1.3 / NVMe-MI 1.0a ready
- SIE, SED (TCG Opal), FIPS optional
- Excellent performance per watt characteristics
- Power Mode Select

CAPACITY:

- 2.5” Case
  - CM5-R (1 DWPD)
  - 7,680 GB
  - 15,360 GB
  - 30,720 GB
- HHHL-AIC
  - CM5-V (3 DWPD)
  - 3,200 GB
  - 6,400 GB
  - 12,800 GB
  - 25,600 GB

MAIN APPLICATIONS:
- Caching
- OLTP
- Mission critical HA Applications
- Write Intensive Applications
- Virtualized / Hyper converged environments

PERFORMANCE:
- Read: Up to 2,600 MB/s
- Write: Up to 2,500 MB/s

PM5 Series

The PM5 Series with up to 30,720 GB offers a wide range of endurance and capacity-optimized SAS SSDs in 2.5 inch form factor. These SSDs provide an efficient storage update for data processing centers with big data requirements. With the first MultiLink-SAS-Architecture the PM5 delivers the best performance of current SAS based SSDs: up to 3,200 MB/s sequential read speed and 2,600 MB/s sequential write speed in MultiLink Mode. As an additional technology, the PM5’s 4-Port-MultiLink-Design allows high performance comparable to PCIe based SSDs. A smart option for boosting a system’s performance, without changing the existing architecture.

Furthermore the PM5 supports Multi-Stream-Write-Technology for intelligent administration and grouping of file types in order to reduce "Garbage Collection" and "Write Amplification" significantly. All this leads to low latency, better endurance improved overall performance and as a result to an ideal Quality of Service (QoS).

KEY FEATURES:
- TMC’s latest 64-layer BiCS Gen3 Flash™ Memory
- Up to 30,720 GB of capacity
- SAS3 narrow single / dual port
- MultiLink SAS™
- 5.5 Mhrs Reliability
- SIE, SED (TCG Opal), FIPS capable
- T10 Write Stream support
- Power Mode Select

CAPACITY:

- 2.5” Case
  - PM5-R (1 DWPD)
  - 15,360 GB
  - 30,720 GB
  - PM5-V (3 DWPD)
  - 3,840 GB
  - 7,680 GB
  - PM5-M (10 DWPD)
  - 1,920 GB
  - 3,840 GB
  - 7,680 GB

MAIN APPLICATIONS:
- Caching
- OLTP
- Mission critical HA Applications
- Write Intensive Applications
- Virtualized / Hyper converged environments

PERFORMANCE:
- Read: Up to 3,200 MB/s
- Write: Up to 2,600 MB/s

* Please check technical specifications for further details.
## Technical data

### Client SSD

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>Sequential Read (MB/s)</th>
<th>Sequential Write (MB/s)</th>
<th>Power Consumption (W)</th>
<th>Dimensions (W x D x H mm)</th>
<th>Environmental Temperature (Operating) °C</th>
<th>Environmental Shock (Non-operating) g</th>
<th>Environmental Vibration (Non-operating) m/s²</th>
</tr>
</thead>
<tbody>
<tr>
<td>KXG60ZNV1T02</td>
<td>128 GB</td>
<td>1,300 MB/s (1.33 GB/s)</td>
<td>760 MB/s (0.79 GB/s)</td>
<td>3.3 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>200 G</td>
<td>196 m/s²</td>
</tr>
<tr>
<td>KXG60ZNV1T02</td>
<td>256 GB</td>
<td>2,580 MB/s (2.67 GB/s)</td>
<td>1,430 MB/s (1.5 GB/s)</td>
<td>4.0 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
</tr>
<tr>
<td>KXG60ZNV1T02</td>
<td>512 GB</td>
<td>3,510 MB/s (3.62 GB/s)</td>
<td>2,180 MB/s (2.28 GB/s)</td>
<td>4.7 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
</tr>
</tbody>
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### XGS Series – M.2 2280 (Single-sided)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>Sequential Read (MB/s)</th>
<th>Sequential Write (MB/s)</th>
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<th>Dimensions (W x D x H mm)</th>
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</thead>
<tbody>
<tr>
<td>KXG60ZNV1T02</td>
<td>128 GB</td>
<td>2,700 MB/s (2.84 GB/s)</td>
<td>1,400 MB/s (1.48 GB/s)</td>
<td>3.3 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>200 G</td>
<td>196 m/s²</td>
</tr>
<tr>
<td>KXG60ZNV1T02</td>
<td>256 GB</td>
<td>4,130 MB/s (4.28 GB/s)</td>
<td>2,380 MB/s (2.5 GB/s)</td>
<td>4.0 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
</tr>
<tr>
<td>KXG60ZNV1T02</td>
<td>512 GB</td>
<td>6,130 MB/s (6.39 GB/s)</td>
<td>3,620 MB/s (3.8 GB/s)</td>
<td>4.7 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
</tr>
</tbody>
</table>

### XGS-P Series – M.2 2280 (Single-sided)

<table>
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<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>Sequential Read (MB/s)</th>
<th>Sequential Write (MB/s)</th>
<th>Power Consumption (W)</th>
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<tr>
<td>KXG60ZNV1T02</td>
<td>128 GB</td>
<td>2,700 MB/s (2.84 GB/s)</td>
<td>1,400 MB/s (1.48 GB/s)</td>
<td>3.3 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>200 G</td>
<td>196 m/s²</td>
</tr>
<tr>
<td>KXG60ZNV1T02</td>
<td>256 GB</td>
<td>4,130 MB/s (4.28 GB/s)</td>
<td>2,380 MB/s (2.5 GB/s)</td>
<td>4.0 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
</tr>
<tr>
<td>KXG60ZNV1T02</td>
<td>512 GB</td>
<td>6,130 MB/s (6.39 GB/s)</td>
<td>3,620 MB/s (3.8 GB/s)</td>
<td>4.7 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
</tr>
</tbody>
</table>

### BG3 Series – M.2 2230 / BGA 1620

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Capacity</th>
<th>Sequential Read (MB/s)</th>
<th>Sequential Write (MB/s)</th>
<th>Power Consumption (W)</th>
<th>Dimensions (W x D x H mm)</th>
<th>Environmental Temperature (Operating) °C</th>
<th>Environmental Shock (Non-operating) g</th>
<th>Environmental Vibration (Non-operating) m/s²</th>
</tr>
</thead>
<tbody>
<tr>
<td>KXG60ZMS12G</td>
<td>128 GB</td>
<td>1,000 MB/s (1.05 GB/s)</td>
<td>550 MB/s (0.58 GB/s)</td>
<td>3.2 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>200 G</td>
<td>196 m/s²</td>
</tr>
<tr>
<td>KXG60ZMS12G</td>
<td>256 GB</td>
<td>1,600 MB/s (1.71 GB/s)</td>
<td>900 MB/s (0.95 GB/s)</td>
<td>4.0 W typ.</td>
<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
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<td>57 x 22.2 x 2.2 mm</td>
<td>-40 to 85 °C</td>
<td>300 G</td>
<td>147 m/s²</td>
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## Technical data

### Client SSD

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<tr>
<th>Model Number</th>
<th>Model Code</th>
<th>Capacity</th>
<th>Power Requirements</th>
<th>Dimensions</th>
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* Performance depend on Model, Workload and Configuration. Subject to be changed without notice.
## Technical data
### Data Center SSD

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<th>Model Number</th>
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<th>Interface</th>
<th>Sequential Read*</th>
<th>Sequential Write**</th>
<th>Random Read*</th>
<th>Random Write*</th>
<th>Read/Write (Max)</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Endurance</th>
<th>Data Retention</th>
<th>Security</th>
<th>MTTF</th>
<th>Limited Warranty</th>
<th>Power Loss Protection</th>
<th>Active</th>
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<td>6 Gb/s SATA</td>
<td>Up to 550 MB/s</td>
<td>Up to 280,000 IOPS</td>
<td>3 years @ 40 °C</td>
<td>3 months @ 40 °C</td>
<td>Non-SED</td>
<td>2.0 AFR 5.4kHz</td>
<td>5 years</td>
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<td>Up to 21,000 IOPS</td>
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* Performance depend on Model, Workload and Configuration. Subject to be changed without notice.
Technical data
Enterprise SSD

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<th>Interface</th>
<th>Sequential Read</th>
<th>Sequential Write</th>
<th>Random Read</th>
<th>Random Write</th>
<th>Read/Write as (Typ.)</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Endurance</th>
<th>Data Retention (at 5A power, as removed)</th>
<th>Security</th>
<th>MTTF (AFR 0.35%)</th>
<th>Limited Warranty</th>
<th>Power Loss Protection</th>
<th>Active</th>
<th>Idle</th>
<th>Op</th>
<th>Non-op</th>
<th>More features</th>
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<td>SAS-3.0</td>
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<td>Up to 400,000 IOPS</td>
<td>10,000 IOPS</td>
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<td>15.0 mm x 3.0 mm</td>
<td>108.45 mm</td>
<td>5.00 mm</td>
<td>1040 G</td>
<td>3 months</td>
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<td>2.5MM (AFR 0.35%)</td>
<td>5 Years</td>
<td>Yes</td>
<td>&lt; 18W</td>
<td>2.4W</td>
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<td>10,000 IOPS</td>
<td>7,200 GB</td>
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<td>5.00 mm</td>
<td>1040 G</td>
<td>3 months</td>
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<td>2.4W</td>
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<td>108.45 mm</td>
<td>5.00 mm</td>
<td>1040 G</td>
<td>3 months</td>
<td>optional SIE / SSD / EIPS</td>
<td>2.5MM (AFR 0.35%)</td>
<td>5 Years</td>
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<td>&lt; 18W</td>
<td>2.4W</td>
<td>- SAS3 nanoe single or dual port and MultiLink - NVMe 1.3 / NVMe-MI 1.0a ready - PCIe Gen3 x4 single or dual port and MultiLink - Excellent performance per watt characteristics - Configurable and adaptive power modes</td>
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<td>7,200 GB</td>
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<td>BiCS FLASH Gen3</td>
<td>SAS-3.0</td>
<td>2,600 MB/s</td>
<td>Up to 400,000 IOPS</td>
<td>10,000 IOPS</td>
<td>7,200 GB</td>
<td>15.0 mm x 3.0 mm</td>
<td>108.45 mm</td>
<td>5.00 mm</td>
<td>1040 G</td>
<td>3 months</td>
<td>optional SIE / SSD / EIPS</td>
<td>2.5MM (AFR 0.35%)</td>
<td>5 Years</td>
<td>Yes</td>
<td>&lt; 18W</td>
<td>2.4W</td>
<td>- SAS3 nanoe single or dual port and MultiLink - NVMe 1.3 / NVMe-MI 1.0a ready - PCIe Gen3 x4 single or dual port and MultiLink - Excellent performance per watt characteristics - Configurable and adaptive power modes</td>
<td></td>
</tr>
<tr>
<td>KPM51RUG7T350</td>
<td>45.120 GB</td>
<td></td>
<td>BiCS FLASH Gen3</td>
<td>SAS-3.0</td>
<td>2,600 MB/s</td>
<td>Up to 400,000 IOPS</td>
<td>10,000 IOPS</td>
<td>7,200 GB</td>
<td>15.0 mm x 3.0 mm</td>
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<td></td>
</tr>
</tbody>
</table>

* Performance depend on Model, Workload and Configuration. Subject to be changed without notice.
TOSHIBA reserves the right to make changes to the information in this document and related Product without notice. Product image may represent a design model. Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 230 = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

DWPD: Drive Write Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day every day for five years, the stated product warranty period. Actual results may vary due to system configuration, usage and other factors. Read and write speed may vary depending on the host device, read and write conditions, and file size.

There are some models of Toshiba Storage Products which deliver various security functions as optional feature. For more information of security options, please contact your TOSHIBA sales representative.

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