OUTSMART YOUR RIVALS WITH APACER'S STEALTH MACHINE

Overclocking / Gaming Memory Module & SSD

Apacer

M.2 2280 PCIe SSD

P/N: AP2TBAS2280Q4U
AS2280Q4U M.2 PCIe 2TB

Apacer
# M.2 SSD PCIe Gen4

## AS2280Q4

**M.2 PCIe Gen4 x4 SSD**

![Product Image]

**Capacity**
- 500GB
- 1TB
- 2TB

**INTERFACE**
- PCIe Gen 4x4

**NAND FLASH**
- 3D TLC

**MAX READ/WRITE PERFORMANCE**
- Up to 5,000 / 4,400 MB/s

**RANDOM WRITE PERFORMANCE**
- Up to 750,000 IOPs

**Features**
- The Latest PCIe 4.0 Technology
- Compliant with NVMe 1.3 Standard
- 3D TLC NAND Flash
- Compact Size with Higher Capacity and Reliability
- Up to 5000 MB/s Ultra-High-Speed and Super-Steady
- Dedicated Heat Sink for Better Cooling
- Superior Data Integrity and Security

**Dimension**
- (L)80 x (W)22 x (H)3.5mm
**M.2 SSD PCIe Gen3**

**AS2280Q4U**

M.2 PCIe Gen4 x4 SSD

---

### Capacity
- 500GB / 1TB / 2TB

### INTERFACE
- PCIe Gen 4x4

### NAND FLASH
- 3D NAND

### MAX READ/WRITE PERFORMANCE
- Up to 7,000 / 6,850 MB/s

### RANDOM WRITE PERFORMANCE
- Up to 700,000 IOPs

### Features
- The Latest PCIe 4.0 Technology
- Compliant with NVMe 1.3 Standard
- 3D NAND Flash
- Compact Size with Higher Capacity and Reliability
- Up to 7000 MB/s Ultra-High-Speed and Super-Steady
- Dedicated Heat Sink for Better Cooling
- Superior Data Integrity and Security

### Dimension
- (L)80 x (W)22 x (H)3.5mm

---

Coming Soon
# M.2 SSD PCIe Gen3

**AS2280P4**  
**M.2 PCIe Gen3 x4 SSD**

## Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>240GB / 256GB / 480GB / 512GB / 1TB</td>
</tr>
<tr>
<td><strong>INTERFACE</strong></td>
<td>PCIe Gen3 x4</td>
</tr>
<tr>
<td><strong>NAND FLASH</strong></td>
<td>3D TLC</td>
</tr>
<tr>
<td><strong>Max Read/Write Performance</strong></td>
<td>Up to 3,000 / 2,000 MB/s</td>
</tr>
<tr>
<td><strong>Random Write Performance</strong></td>
<td>Up to 360,000 IOPs</td>
</tr>
</tbody>
</table>

- Compliant with NVMe 1.3 Standard
- Ultra Thin M.2 Form Factor
- Sequential Read/Write Speed up to 3000/2000MB/s (1TB)
- Random Write Performance Up to 360,000 IOPs

**Dimension**  
(L)80 x (W)22 x (H)3.5mm
### AS2280P4U

**M.2 PCIe Gen3 x4 SSD**

**Capacity**  
256GB / 512GB / 1TB / 2TB

**INTERFACE**  
PCIe Gen3 x4

**NAND FLASH**  
3D NAND

**MAX READ/WRITE PERFORMANCE**  
Up to 3,500 / 3,000 MB/s

**RANDOM WRITE PERFORMANCE**  
Up to 92,160 IOPs

**Features**
- Compliant with NVMe 1.3 Standard
- Ultra Thin M.2 Form Factor
- Built-in Global Wear Leveling
- Sequential Read/Write Speed up to 3500/3000MB/s

**Dimension**  
(L)80 x (W)22 x (H)3.5mm
## AS2280P4U PRO

**M.2 PCIe Gen3 x4 SSD**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>256GB / 512GB / 1TB / 2TB</td>
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<tr>
<td><strong>INTERFACE</strong></td>
<td>PCIe Gen3 x4</td>
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<tr>
<td><strong>NAND FLASH</strong></td>
<td>3D NAND</td>
</tr>
<tr>
<td><strong>MAX READ/WRITE PERFORMANCE</strong></td>
<td>Up to 3,500 / 3,000 MB/s</td>
</tr>
<tr>
<td><strong>RANDOM WRITE PERFORMANCE</strong></td>
<td>Up to 92,160 IOPs</td>
</tr>
</tbody>
</table>

- Compliant with NVMe 1.3 Standard
- Ultra Thin M.2 Form Factor
- Built-in Global Wear Leveling
- Sequential Read/Write Speed up to 3500/3000 MB/s
- Equipped with Aluminum Heat Sink, Effectively Reducing SSD Temperatures

**Dimension**: (L)80 x (W)22 x (H)3.5mm
M.2 SATA SSD

AST280
M.2 SATA III SSD

Capacity
120GB / 240GB / 480GB

INTERFACE
SATA III 6Gb/s

NAND FLASH
3D TLC

MAX READ/WRITE PERFORMANCE
Up to 520 / 495 MB/s

RANDOM WRITE PERFORMANCE
Up to 84,000 IOPs

Features
- Compatible with SATA III 6Gb/s interface
- Perfect for desktop PC, mini PC & notebook
- Powerful ECC engine correcting up to 72bit/1KB
- Supports SATA Power Management
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

Dimension
(L)80 x (W)22 x (H)3.5 mm
## mSATA III SSD

### AST220

**mSATA III SSD**

![Image](image.png)

**Capacity**

<table>
<thead>
<tr>
<th>120GB</th>
<th>240GB</th>
</tr>
</thead>
</table>

**INTERFACE**

- SATA III 6Gb/s

**NAND FLASH**

- 3D TLC

**MAX READ/WRITE PERFORMANCE**

- Up to 550 / 530 MB/s

**RANDOM WRITE PERFORMANCE**

- Up to 65,000 IOPs

**Features**

- Compatible with SATA III 6.0 Gb/s Interface
- Sequential Read/Write Speed up to 550/530MBs
- Supports SATA Power Management
- Powerful ECC engine correcting up to 72bit/1KB
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

**Dimension**

- (L)50.80 x (W)29.85 x (H)4.85 mm
Portable SSD

AS722
USB 3.2 Gen 2 NVMe / USB-C
Portable SSD

- Capacity 512GB / 1TB
- INTERFACE USB 3.2 Gen 2 NVMe / USB-C and backward compatible with USB 2.0
- NAND FLASH 3D NAND
- MAX READ/WRITE PERFORMANCE Up to 1,000 / 900 MB/s
  - Sequential Read/Write Speed up to 1000/900 MB/s
  - USB 3.2 Gen 2 NVMe Interface
  - Military-Grade Shockproof and Anti Vibration Protections
  - Minimalist Design, Easy On-the-Go
  - Smooth Plug & Play with USB-C Port
- Dimension (L)122 x (W)36 x (H)12 mm
## Portable SSD

**AS721**

**USB 3.2 Gen 2 SATA / USB-C**

**Portable SSD**

### Features
- Sequential Read/Write Speed up to 530/500 MB/s
- USB 3.2 Gen 2 SATA Interface
- Military-Grade Shockproof and Anti Vibration Protections
- Minimalist Design, Easy On-the-Go
- Smooth Plug & Play with USB-C Port

### Dimension
- (L)122 x (W)36 x (H)12 mm

### Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>250GB/ 500GB / 1TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERFACE</td>
<td>USB 3.2 Gen 2 SATA / USB-C and backward compatible with USB 2.0</td>
</tr>
<tr>
<td>NAND FLASH</td>
<td>3D NAND</td>
</tr>
<tr>
<td>MAX READ/WRITE PERFORMANCE</td>
<td>Up to 530 / 500 MB/s</td>
</tr>
</tbody>
</table>

**MORE**
### AS340 PANTHER

**SATAIII SSD**

- **Capacity**: 120GB/240GB/480GB/960GB
- **Interface**: SATA III 6Gb/s
- **NAND FLASH**: 3D TLC
- **Max Read/Write Performance**: Up to 550 / 520 MB/s
- **Random Write Performance**: Up to 80,000 IOPs

**Features**

- Compatible with SATA III 6Gb/s interface
- Powerful ECC engine correcting up to 72bit/1KB
- Supports SATA Power Management
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

**Dimension**

(L)100 x (W)69.9 x (H)7 mm
# 2.5” SSD

**AS340x**  NEW  
**SATA III SSD**

![Solid State Drive (SSD)](image)

<table>
<thead>
<tr>
<th>Capacity</th>
<th>120GB/240GB/480GB/960GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERFACE</td>
<td>SATA III 6Gb/s</td>
</tr>
<tr>
<td>NAND FLASH</td>
<td>3D TLC</td>
</tr>
<tr>
<td>MAX READ/WRITE PERFORMANCE</td>
<td>Up to 550 / 520 MB/s</td>
</tr>
<tr>
<td>RANDOM WRITE PERFORMANCE</td>
<td>Up to 80,000 IOPs</td>
</tr>
</tbody>
</table>

**Features**

- Compatible with SATA III 6Gb/s interface
- Powerful ECC engine correcting up to 72bit/1KB
- Supports SATA Power Management
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

**Dimension**

(L)100 x (W)69.9 x (H)7 mm
## AS350 PANTHER

### SATA III SSD

**Capacity**
- 128GB/256GB/512GB/1TB

**INTERFACE**
- SATA III 6Gb/s

**NAND FLASH**
- 3D TLC

**MAX READ/WRITE PERFORMANCE**
- Up to 560 / 540 MB/s

**RANDOM WRITE PERFORMANCE**
- Up to 30,176 IOPs

**Features**
- Compatible with SATA III 6Gb/s interface
- Powerful ECC engine correcting up to 72bit/1KB
- Supports SATA Power Management
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

**Dimension**
- (L)100 x (W)69.9 x (H)7 mm
# 2.5” SSD

## AS350x NEW

**SATA III SSD**

![SSD Image]  
**Apacer Solid State Drive | AS350X**

### Features
- Compatible with SATA III 6Gb/s interface
- Powerful ECC engine correcting up to 72bit/1KB
- Supports SATA Power Management
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

### Specifications
- **Capacity**: 128GB/256GB/512GB/1TB
- **Interface**: SATA III 6Gb/s
- **NAND FLASH**: 3D TLC
- **Max Read/Write Performance**: Up to 560 / 540 MB/s
- **Random Write Performance**: Up to 30,176 IOPs

<table>
<thead>
<tr>
<th>Capacity</th>
<th>128GB/256GB/512GB/1TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERFACE</td>
<td>SATA III 6Gb/s</td>
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<tr>
<td>NAND FLASH</td>
<td>3D TLC</td>
</tr>
<tr>
<td>MAX READ/WRITE PERFORMANCE</td>
<td>Up to 560 / 540 MB/s</td>
</tr>
<tr>
<td>RANDOM WRITE PERFORMANCE</td>
<td>Up to 30,176 IOPs</td>
</tr>
</tbody>
</table>

### Dimension
- (L)100 x (W)69.9 x (H)7 mm

- [More](#)
# 2.5” SSD

## AS510S

**SATAIII SSD**

![SSD Image]

**Capacity**
- 64GB / 128GB / 256GB / 480GB

**INTERFACE**
- SATA III 6Gb/s

**NAND FLASH**
- MLC

**MAX READ/WRITE PERFORMANCE**
- Up to 530 / 520 MB/s

**RANDOM WRITE PERFORMANCE**
- Up to 53,000 IOPs

**Features**
- Compatible with SATA III 6Gb/s interface
- Powerful ECC engine correcting up to 72bit/1KB
- Supports SATA Power Management
- Supports S.M.A.R.T. command
- Supports TRIM & NCQ commands

**Dimension**
- (L)100 x (W)69.9 x (H)7 mm
## NAS SSD

### PP8825

**SATA III NAS SSD**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>128GB / 256GB / 512GB / 1TB / 2TB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTERFACE</strong></td>
<td>SATA III 6Gb/s</td>
</tr>
<tr>
<td><strong>NAND FLASH</strong></td>
<td>3D NAND</td>
</tr>
<tr>
<td><strong>MAX READ/WRITE PERFORMANCE</strong></td>
<td>Up to 550 / 500 MB/s</td>
</tr>
<tr>
<td><strong>RANDOM WRITE PERFORMANCE</strong></td>
<td>Up to 84,000 / 86,000 IOPs</td>
</tr>
</tbody>
</table>

**Features**

- Compatible with SATA III 6Gb/s interface
- High Endurance for Longer Life
- Terabytes Written (TBW): 115/385/820/2065/3750
- MTBF: 2,000,000h
- Supports S.M.A.R.T. and TRIM command

**Dimension**

(L)100 x (W)69.85 x (H)6.9 mm
## NAS SSD

### PPS880

**M.2 SATA III NAS SSD**

![Image of PPS880 SSD](image)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>128GB / 256GB / 512GB / 1TB</td>
</tr>
<tr>
<td><strong>INTERFACE</strong></td>
<td>SATA III 6Gb/s</td>
</tr>
<tr>
<td><strong>NAND FLASH</strong></td>
<td>3D NAND</td>
</tr>
<tr>
<td><strong>MAX READ/WRITE PERFORMANCE</strong></td>
<td>Up to 550 / 500 MB/s</td>
</tr>
<tr>
<td><strong>RANDOM WRITE PERFORMANCE</strong></td>
<td>Up to 84,000 / 86,000 IOPs</td>
</tr>
</tbody>
</table>
| **Features**                   | - Compatible with SATA III 6Gb/s interface  
- M.2 2280 Form Factor  
- High Endurance for Longer Life  
- Terabytes Written (TBW): 175/385/820/2065  
- MTBF: 2,000,000h  
- Supports S.M.A.R.T. and TRIM command |
| **Dimension**                  | (L)80 x (W)22 x (H)2.3 mm |
PP3480
M.2 PCIe NAS SSD

Capacity
128GB / 256GB / 512GB / 1TB / 2TB

INTERFACE
PCIe

NAND FLASH
3D NAND

MAX READ/WRITE PERFORMANCE
Up to 2500 / 2100 MB/s

RANDOM WRITE PERFORMANCE
Up to 215,000 / 390,000 IOPs

Features
- Compliant with NVMe 1.3 Standard
- M.2 2280-S2-M Form Factor
- High Endurance for Longer Life
- Terabytes Written (TBW): 250/500/1000/2000/40000
- MTBF: 2,000,000h
- Supports TRIM command

Dimension
(L)80 x (W)22 x (H)2.15 mm
# Gaming Memory Module

## NOX RGB

**DDR4**

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Model</th>
<th>Capacity</th>
<th>Voltage</th>
<th>CL Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>3600MHz</td>
<td>PC4-28800</td>
<td>16GB</td>
<td>1.35V</td>
<td>18-22-22-38</td>
</tr>
<tr>
<td>3200MHz</td>
<td>PC4-25600</td>
<td>8GB/16GB</td>
<td>1.35V</td>
<td>16-18-18-38</td>
</tr>
<tr>
<td>3000MHz</td>
<td>PC4-24000</td>
<td>8GB/16GB</td>
<td>1.35V</td>
<td>16-18-18-38</td>
</tr>
<tr>
<td>2666MHz</td>
<td>PC4-21300</td>
<td>8GB/16GB</td>
<td>1.2V</td>
<td>16-18-18-38</td>
</tr>
<tr>
<td>2400MHz</td>
<td>PC4-19200</td>
<td>8GB/16GB</td>
<td>1.2V</td>
<td>16-16-16-36</td>
</tr>
</tbody>
</table>
## Gaming Memory Module

**NOX SODIMM**  
**DDR4**

![NOX SODIMM DDR4 Memory Module](image)

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Model</th>
<th>Single Package</th>
<th>Dual Package</th>
<th>Voltage</th>
<th>CL Timing</th>
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<tbody>
<tr>
<td>3200MHz</td>
<td>PC4-25600</td>
<td>8GB/16GB</td>
<td>N/A</td>
<td>1.35V</td>
<td>20-22-22-34</td>
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<tr>
<td>3000MHz</td>
<td>PC4-24000</td>
<td>8GB/16GB</td>
<td>N/A</td>
<td>1.2V</td>
<td>18-20-20-38</td>
</tr>
<tr>
<td>2666MHz</td>
<td>PC4-21300</td>
<td>8GB/16GB</td>
<td>N/A</td>
<td>1.2V</td>
<td>18-18-18-38</td>
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<tr>
<td>2400MHz</td>
<td>PC4-19200</td>
<td>8GB/16GB</td>
<td>16GB/32GB</td>
<td>1.2V</td>
<td>17-17-17-36</td>
</tr>
</tbody>
</table>
# Gaming Memory Module

## PANTHER RAGE

*RGB Silver-Golden DDR4*

![Image of PANTHER RAGE memory module]

### TAIWAN EXCELLENCE 2019

### DATA RATE  |  MODEL  |  CAPACITY  |  VOLTAGE  |  CL TIMING
---|---|---|---|---
3200MHz | PC4-25600 | 8GB/16GB | 16GB | 1.2V/1.35V | 16-18-18-38
3000MHz | PC4-24000 | 8GB/16GB | 16GB | 1.35V | 16-18-18-38
2666MHz | PC4-21300 | 8GB/16GB | 16GB | 1.2V | 16-16-16-36

**MORE**
# Gaming Memory Module

**PANTHER**

**Golden/Silver-Gold DDR4**

![PANTHER Image]

## Gold/Silver-Gold

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Model</th>
<th>Capacity</th>
<th>Voltage</th>
<th>CL Timing</th>
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</thead>
<tbody>
<tr>
<td>3200MHz</td>
<td>PC4-25600</td>
<td>8GB/16GB/32GB</td>
<td>1.35V</td>
<td>16-20-20-38</td>
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<tr>
<td></td>
<td></td>
<td>16GB/32GB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000MHz</td>
<td>PC4-24000</td>
<td>8GB/16GB</td>
<td>1.35V</td>
<td>16-18-18-38</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/A</td>
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<td></td>
</tr>
<tr>
<td>2666MHz</td>
<td>PC4-21300</td>
<td>8GB/16GB</td>
<td>1.2V</td>
<td>16-18-18-38</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/A</td>
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<td></td>
</tr>
<tr>
<td>2400MHz</td>
<td>PC4-19200</td>
<td>8GB/16GB</td>
<td>1.2V</td>
<td>16-16-16-36</td>
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<tr>
<td>2133MHz</td>
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*More information available in the image.*
# Desktop Memory Series

## UNBUFFERED DIMM

### DDR3/DDR4

![Memory Module Image]

### Specifications

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Model</th>
<th>Capacity</th>
<th>Voltage</th>
<th>CL Timing</th>
<th>Pin</th>
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</thead>
<tbody>
<tr>
<td>DDR4-3200</td>
<td>PC4-25600</td>
<td>8GB/16GB/32GB</td>
<td>1.2V</td>
<td>CL22</td>
<td>288PIN</td>
</tr>
<tr>
<td>DDR4-2666</td>
<td>PC4-21300</td>
<td>4GB/8GB/16GB/32GB</td>
<td>1.2V</td>
<td>CL19</td>
<td>288PIN</td>
</tr>
<tr>
<td>DDR4-2400</td>
<td>PC4-19200</td>
<td>4GB/8GB/16GB</td>
<td>1.2V</td>
<td>CL17</td>
<td>288PIN</td>
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<tr>
<td>DDR4-2133</td>
<td>PC4-17000</td>
<td>4GB/8GB/16GB</td>
<td>1.2V</td>
<td>CL15</td>
<td>288PIN</td>
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<tr>
<td>DDR3-1600</td>
<td>PC3-12800</td>
<td>2GB/4GB/8GB</td>
<td>1.35V/1.5V</td>
<td>CL11</td>
<td>240PIN</td>
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</table>
# Notebook Memory Series

## SO-DIMM

### DDR3/DDR4

<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Model</th>
<th>Capacity</th>
<th>Voltage</th>
<th>CL Timing</th>
<th>PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDR4-3200</td>
<td>PC4-25600</td>
<td>8GB/16GB/32GB</td>
<td>1.2V</td>
<td>CL22</td>
<td>260PIN</td>
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<tr>
<td>DDR4-2666</td>
<td>PC4-21300</td>
<td>4GB/8GB/16GB/32GB</td>
<td>1.2V</td>
<td>CL19</td>
<td>260PIN</td>
</tr>
<tr>
<td>DDR4-2400</td>
<td>PC4-19200</td>
<td>4GB/8GB/16GB</td>
<td>1.2V</td>
<td>CL17</td>
<td>260PIN</td>
</tr>
<tr>
<td>DDR4-2133</td>
<td>PC4-17000</td>
<td>4GB/8GB/16GB</td>
<td>1.2V</td>
<td>CL15</td>
<td>260PIN</td>
</tr>
<tr>
<td>DDR3-1600</td>
<td>PC3-12800</td>
<td>2GB/4GB/8GB</td>
<td>1.35V/1.5V</td>
<td>CL11</td>
<td>204PIN</td>
</tr>
</tbody>
</table>
Apacer, one of the world leaders in memory and SSD products has started to design, research, and develop high quality and innovative gaming products wholeheartedly since 2012. Backed by the world’s best technology in industrial memory module and storage (globally the no.1 market share of SSD, by Garner), Apacer gives users much more than they expect in terms of functionality and stability, providing an unmatched hi-tech products.

Apacer is dedicated to developing state-of-the-art gaming memory module and SSD with maximum performance, stability, and compatibility. Apacer would like to provide the most enjoyable and exciting experience in a game play to its users. If you are looking for the most reliable and coolest products available, look no further than Apacer gaming series. Speedy, stable, and heavy-duty with high quality materials as well as aesthetic design, Apacer gaming series is showing off at a whole new scale!

For more information about Apacer, please visit www.apacer.com
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