

ZADAK

# BEYOND THE BOUNDARY

CASE / COMPONENTS / COOLING PRODUCT GUIDE





## About ZADAK

Original design, craftsmanship, and beyond the boundary are the core values of ZADAK. We want to create a custom water-cooled PC case which is sophisticated and elegant, just like an artwork, an enjoyment. We also want to create something that is easy for you to assemble your own fantasy PC.

After years of development, tons of experiments and prototypes, ZADAK finally settles on a design that would be the key of why we are able to make the water-cooled computer so compact.

ZADAK hopes that you will get as much fun out of building your own fantasy PC as we do.

## Global Presence

### Taiwan ( Headquarters )

Apacer Technology Inc.  
Tel : +886-2-2267-8000  
Fax : +886-2-2267-3410

### Europe

Apacer Technology B.V.  
Tel : +31-40-267-0000  
Fax : +31-40-290-0686

### U.S.A

Apacer Memory America, Inc.  
Tel : +1-408-518-8699  
Fax : +1-510-249-9551



### China

Apacer Electronic(Shanghai)Co.,  
Ltd.  
Tel : +86-21-6228-9939

### Japan

Apacer Technology Corp.  
Tel : +81-3-5419-2668  
Fax : +81-3-5419-0018

### India

Apacer Technologies Pvt. Ltd.  
Tel : +91-80-41529061~3  
Fax : +91-80-41700215



## MOAB II ELITE WATER COOLED PC CASE



|                             |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mother Board Support</b> | Intel                                                                                                                                                                                                                                                                           | AMD                                                                                                                                                                                                                                                           |
|                             | <ul style="list-style-type: none"> <li>• ROG STRIX Z490-G GAMING</li> <li>• GIGABYTE Z490M</li> <li>• ASRock Z490M Pro4</li> <li>• ROG MAXIMUS XI GENE</li> <li>• GIGABYTE B360M AORUS GAMING 3</li> <li>• GIGABYTE B360M AORUS PRO</li> <li>• MSI MAG Z390M MORTAR.</li> </ul> | <ul style="list-style-type: none"> <li>• GIGABYTE B450M GAMING</li> <li>• GIGABYTE B450 AORUS M</li> </ul> <p>*MOAB II Elite is compatible with most m-ATX motherboards on the market. But the models listed above have been officially verified by ZADAK</p> |
| <b>CPU Support</b>          | Socket<br>Intel 1200, 115x Socket, AMD AM4 (Ryzen) series Desktop Processors                                                                                                                                                                                                    |                                                                                                                                                                                                                                                               |
| <b>Product Dimensions</b>   | (L)311x(W)193x(H)371mm                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                               |
| <b>Packing Dimensions</b>   | (L)472x(W)347x(H)639mm                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                               |
| <b>Net weight</b>           | 7.3kg                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                               |
| <b>Gross weight</b>         | 11kg                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                               |

## MOAB II ULTIMATE WATER COOLED PC CASE



|                             |                                                                                                                                                                                      |                                                                                                               |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Mother Board Support</b> | Intel                                                                                                                                                                                | AMD                                                                                                           |
|                             | <ul style="list-style-type: none"> <li>• ROG MAXIMUS XI GENE</li> <li>• GIGABYTE B360M AORUS GAMING 3</li> <li>• GIGABYTE B360M AORUS PRO</li> <li>• MSI MAG Z390M MORTAR</li> </ul> | <ul style="list-style-type: none"> <li>• GIGABYTE B450M GAMING</li> <li>• GIGABYTE B450 AORUS M</li> </ul>    |
| <b>CPU Support</b>          | 1. NVIDIA GeForce RTX 2080 Ti<br>2. Asus DUAL-RTX2080TI-O11G<br>3. Asus DUAL-RTX2080TI-A11G<br>4. GALAX GeForce RTX 2080 Ti OC                                                       | 5. GALAX GeForce RTX 2080 Ti OC White<br>6. GALAX GeForce RTX 2080 Ti Blower<br>7. Asus DUAL-RTX2080S-08G-EVO |
| <b>Power Supply Support</b> | SFX 500W                                                                                                                                                                             |                                                                                                               |
| <b>Cooling Component</b>    | Including CPU / GPU water blocks and necessary fittings, as well as 2 copper tubes for GPU loop connection.                                                                          |                                                                                                               |
| <b>Product Dimensions</b>   | (L)311x(W)193x(H)371mm                                                                                                                                                               |                                                                                                               |
| <b>Packing Dimensions</b>   | (L)472x(W)347x(H)639mm                                                                                                                                                               |                                                                                                               |
| <b>Net weight</b>           | 8.9kg                                                                                                                                                                                |                                                                                                               |
| <b>Gross weight</b>         | 12.6kg                                                                                                                                                                               |                                                                                                               |



## SPARK AIO LIQUID COOLER



|               |                                                                                                                                                                                                                                    |  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Type          | 240mm AIO                                                                                                                                                                                                                          |  |
| Compatibility | Intel / AMD<br>Intel: LGA 1700, 1200, 1150, 1151, 1152, 1155, 1156, 1366, 2011, 2011-3, 2066<br>AMD: AM5, AM4                                                                                                                      |  |
| Water Block   | Dimension: (L)72x(W)72x(H)47mm<br>Block Material (CPU plate): Copper                                                                                                                                                               |  |
| Radiator      | Dimension: (L)272x(W)121x(H)27mm<br>Material: Aluminum<br>Tube: Sleeved rubber tube                                                                                                                                                |  |
| Fan           | 2 x ZADAK SPARK FAN<br>• Size: 2 Fan Slots (120mm)<br>• Dimension: (L)120x(W)120x(H)25mm<br>• Speed : 500~1800 RPM +/- 10 %<br>• Static Pressure: 2.5mm<br>• H2O Air Flow: 46.34CFM<br>• Noise: 18-25 dB(A)<br>• Control Mode: PWM |  |
| Warranty      | 5 Years                                                                                                                                                                                                                            |  |

## SPARK AIO LITE LIQUID COOLER



|               |                                                                                                                                                                                                               |  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Type          | 240mm AIO                                                                                                                                                                                                     |  |
| Compatibility | Intel / AMD<br>Intel: LGA 1700, 1200, 1150, 1151, 1152, 1155, 1156, 1366, 2011, 2011-3, 2066<br>AMD: AM5, AM4                                                                                                 |  |
| Water Block   | Dimension: (L)70x(W)70x(H)52.1mm<br>Block Material (CPU plate): Copper                                                                                                                                        |  |
| Radiator      | Dimension: (L)274x(W)120x(H)27mm<br>Material: Aluminum<br>Tube: FEP tube                                                                                                                                      |  |
| Fan           | 2 x ZADAK SPARK FAN<br>• Dimension: (L)120x(W)120x(H)25 mm<br>• Fan Speed: 800~2200RPM +/- 10 %<br>• Fan Static Pressure: 2.55mm H2O<br>• Fan Air Flow: 60.97CFM<br>• Noise: 28.6dB(A)<br>• Control Mode: PWM |  |
| Warranty      | 3 Years                                                                                                                                                                                                       |  |





## TWSG4S PCIE GEN4X4 M.2 SSD

|                            |                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                   | 512GB~2TB                                                                                                                                                                                                                                                                                                                                                            |
| Interface                  | PCIe Gen4 x4                                                                                                                                                                                                                                                                                                                                                         |
| NAND Flash                 | 3D NAND                                                                                                                                                                                                                                                                                                                                                              |
| Max Read/Write Performance | Up to 7,400 / 7,000 MB/s                                                                                                                                                                                                                                                                                                                                             |
| Random Write Performance   | Up to 1,000,000 IOPs                                                                                                                                                                                                                                                                                                                                                 |
| Features                   | <ul style="list-style-type: none"> <li>• Max. Read 7,400 MB/s ; Max. Write 7,000 MB/s</li> <li>• Supports the latest NVMe 1.4 standard</li> <li>• Incorporates two heat sinks (aluminum heat sink and ultra-thin graphene heat sink)</li> <li>• Effective cooling and easy installation</li> <li>• Meets the capacity expansion needs of PS5 game console</li> </ul> |
| Dimension                  | <ul style="list-style-type: none"> <li>• with aluminum heatsink : (L)80.00 x (W)22.90 x (H)10.8mm</li> <li>• with graphene heatsink : (L)80.00 x (W)22.00 x (H)2.20mm</li> </ul>                                                                                                                                                                                     |



## TWSG3 PCIE GEN3X4 M.2 SSD

|                            |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                   | 128GB~2TB                                                                                                                                                                                                                                                                                                                                                    |
| Interface                  | PCIe Gen3 x4                                                                                                                                                                                                                                                                                                                                                 |
| NAND Flash                 | 3D NAND                                                                                                                                                                                                                                                                                                                                                      |
| Max Read/Write Performance | Up to 3,500 / 3,200 MB/s                                                                                                                                                                                                                                                                                                                                     |
| Random Write Performance   | -                                                                                                                                                                                                                                                                                                                                                            |
| Features                   | <ul style="list-style-type: none"> <li>• Unleash Lightning-fast Read/Write Speeds</li> <li>• Graphene Heatsink Offering Outstanding Cooling Performance</li> <li>• Perfect Compatibility with PC and Laptop</li> <li>• Advanced Technology for Robust Durability and Reliability</li> <li>• Internal Developed ZADAK Widget to Monitor Your Drive</li> </ul> |
| Dimension                  | (L)80.00 x (W)22.00 x (H)2.25mm                                                                                                                                                                                                                                                                                                                              |



## ZDKG3 PCIE GEN3X4 M.2 SSD

|                            |                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                   | 256GB~1TB                                                                                                                                                                                                                                                                     |
| Interface                  | PCIe Gen3 x4                                                                                                                                                                                                                                                                  |
| NAND Flash                 | 3D NAND                                                                                                                                                                                                                                                                       |
| Max Read/Write Performance | Up to 3,000 / 2,000 MB/s                                                                                                                                                                                                                                                      |
| Random Write Performance   | -                                                                                                                                                                                                                                                                             |
| Features                   | <ul style="list-style-type: none"><li>• Lightning-fast Read/Write Speeds</li><li>• Ultra-compact body - Ideal Choice for Gamers</li><li>• Advanced Technology for Robust Durability and Reliability</li><li>• Internal Developed ZADAK Widget to Monitor Your Drive</li></ul> |
| Dimension                  | (L)80.00 x (W)22.00 x (H)2.25mm                                                                                                                                                                                                                                               |



## TWSS3 SATA3 2.5"SSD

|                            |                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                   | 128GB~2TB                                                                                                                                                                                                                                                                                      |
| Interface                  | SATA 3.2 (6Gb/s)                                                                                                                                                                                                                                                                               |
| NAND Flash                 | 3D TLC                                                                                                                                                                                                                                                                                         |
| Max Read/Write Performance | Up to 560 / 540 MB/s                                                                                                                                                                                                                                                                           |
| Random Write Performance   | Up to 80,000 IOPs                                                                                                                                                                                                                                                                              |
| Features                   | <ul style="list-style-type: none"><li>• Remarkable Read Speed at 560MB/s</li><li>• Effectively Eliminates Power Consumption</li><li>• Optimized Durability and Performance at High Stability</li><li>• High Capacity with Enhanced Reliability</li><li>• Prime Choice for PC Upgrade</li></ul> |
| Dimension                  | (L)100.00 x (W)69.90 x (H)7.00mm                                                                                                                                                                                                                                                               |



## Memory



## TWIST DDR5

| DATA RATE | MODEL     | CAPACITY          |                   | VOLTAGE | CL TIMING   |
|-----------|-----------|-------------------|-------------------|---------|-------------|
|           |           | Single Package    | Dual Package      |         |             |
| 6400MHz   | PC5-51200 | 8GB / 16GB / 32GB | 8GB / 16GB / 32GB | 1.4V    | 32-39-39-84 |
| 6200MHz   | PC5-49600 |                   |                   | 1.35V   | 40-40-40-76 |
| 6000MHz   | PC5-48000 |                   |                   | 1.35V   | 40-40-40-96 |
| 5600MHz   | PC5-44800 |                   |                   | 1.25V   | 40-40-40-80 |
| 5200MHz   | PC5-41600 |                   |                   | 1.25V   | 40-40-40-80 |





## SPARK RGB DDR5

| DATA RATE | MODEL     | CAPACITY       |              | VOLTAGE | CL TIMING   |
|-----------|-----------|----------------|--------------|---------|-------------|
|           |           | Single Package | Dual Package |         |             |
| 6400MHz   | PC5-51200 | 16GB           | 32GB         | 1.4V    | 32-39-39-84 |
| 6200MHz   | PC5-49600 |                |              | 1.35V   | 40-40-40-76 |
| 6000MHz   | PC5-48000 |                |              | 1.35V   | 40-40-40-96 |
| 5600MHz   | PC5-44800 |                |              | 1.25V   | 40-40-40-80 |
| 5200MHz   | PC5-41600 |                |              | 1.25V   | 40-40-40-80 |

## SPARK RGB DDR4



| DATA RATE | MODEL     | CAPACITY       |              | VOLTAGE | CL TIMING   |
|-----------|-----------|----------------|--------------|---------|-------------|
|           |           | Single Package | Dual Package |         |             |
| 4133MHz   | PC4-33000 | 8GB / 16GB     | 16GB / 32GB  | 1.4V    | 19-21-21-42 |
| 3600MHz   | PC4-28800 |                |              | 1.35V   | 18-22-22-38 |
| 3200MHz   | PC4-25600 |                |              | 1.35V   | 16-20-20-38 |
| 3000MHz   | PC4-24000 |                |              | 1.35V   | 16-18-18-38 |
| 2666MHz   | PC4-21300 |                |              | 1.2V    | 16-18-18-38 |

## TWIST DDR4



| DATA RATE | MODEL     | CAPACITY          |                    | VOLTAGE | CL TIMING   |
|-----------|-----------|-------------------|--------------------|---------|-------------|
|           |           | Single Package    | Dual Package       |         |             |
| 3600MHz   | PC4-28800 | 8GB / 16GB / 32GB | 16GB / 32GB / 64GB | 1.35V   | 18-22-22-38 |
| 3200MHz   | PC4-25600 |                   |                    | 1.35V   | 16-20-20-38 |
| 3000MHz   | PC4-24000 |                   |                    | 1.35V   | 16-18-18-38 |
| 2666MHz   | PC4-21300 |                   |                    | 1.2V    | 16-18-18-38 |



# Memory

## MOAB RGB DDR4



| DATA RATE | MODEL     | CAPACITY       |              | VOLTAGE | CL TIMING   |
|-----------|-----------|----------------|--------------|---------|-------------|
|           |           | Single Package | Dual Package |         |             |
| 3600MHz   | PC4-28800 | 8GB / 16GB     | 16GB / 32GB  | 1.35V   | 18-22-22-38 |
| 3200MHz   | PC4-25600 |                |              | 1.35V   | 16-20-20-38 |
| 3000MHz   | PC4-24000 |                |              | 1.35V   | 16-18-18-38 |
| 2666MHz   | PC4-21300 |                |              | 1.2V    | 16-18-18-38 |

## DDR4 DESKTOP MEMORY MODULE



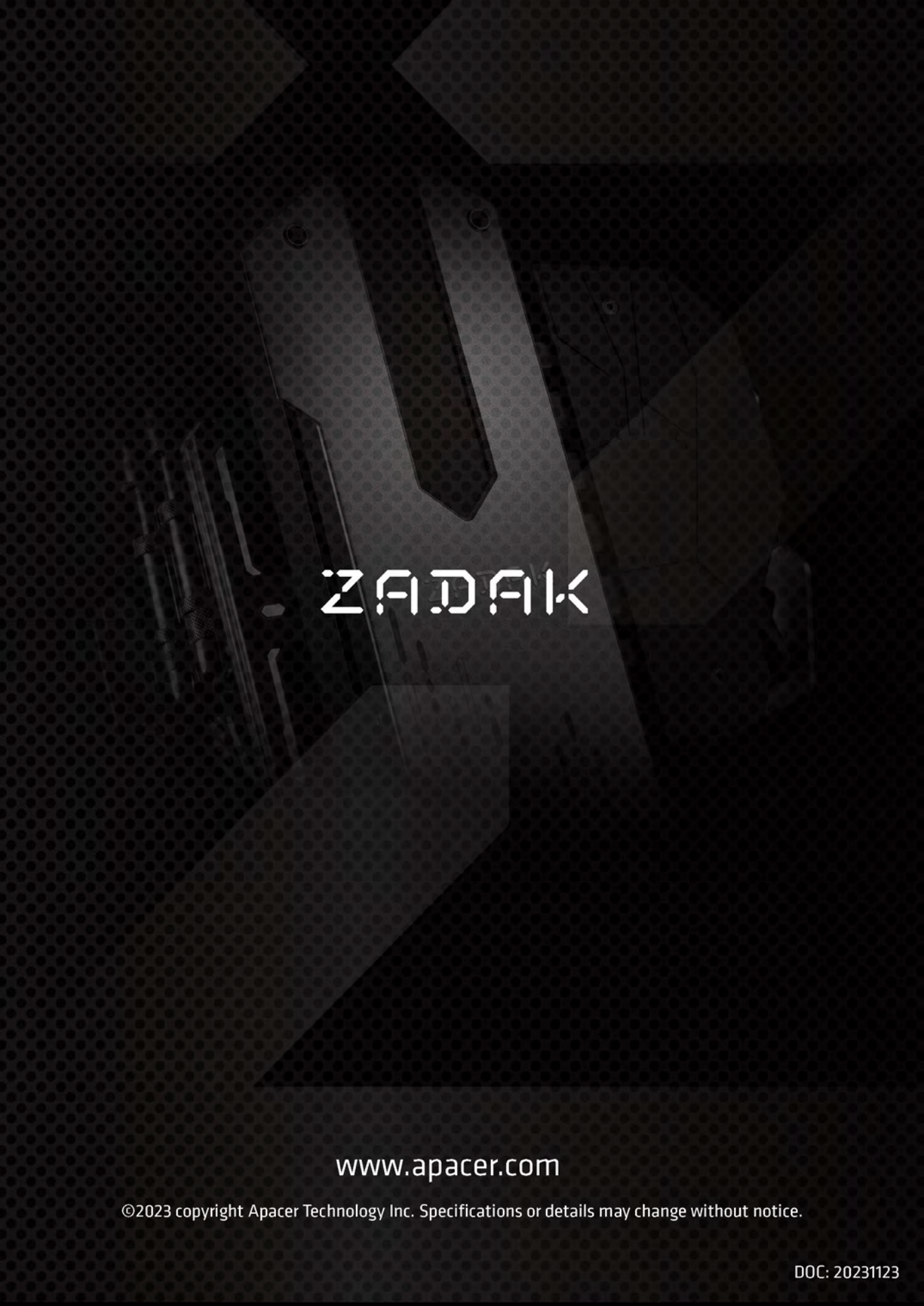
| DATA RATE | MODEL     | CAPACITY  | VOLTAGE | CL TIMING |
|-----------|-----------|-----------|---------|-----------|
| 3200MHz   | PC4-12800 | 4GB ~32GB | 1.2V    | CL22      |
| 2666MHz   | PC4-10600 |           | 1.2V    | CL19      |

## DDR4 NOTEBOOK MEMORY MODULE



| DATA RATE | MODEL     | CAPACITY  | VOLTAGE | CL TIMING |
|-----------|-----------|-----------|---------|-----------|
| 3200MHz   | PC4-12800 | 4GB ~32GB | 1.2V    | CL22      |
| 2666MHz   | PC4-10600 |           | 1.2V    | CL19      |





# ZADAK

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