



*AORUS*

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**AORUS GTX1080 Ti**  
Sales kit

# AORUS GeForce GTX 1080 Ti 11G

GV-N108TAORUS-11GD



## Features

Powered by GeForce® GTX 1080 Ti

Integrated with 11GB GDDR5X 352-bit memory interface

WINDFORCE Stack 3X 100mm Fan Cooling System

Advanced Copper Back Plate Cooling

AORUS VR Link provides the best VR experience

RGB fusion – 16.8M customizable color lighting

Metal Back Plate

Built for Extreme Overclocking 12+2 Power Phases

## Core Clock

Boost: 1708 MHz / Base: 1594 MHz in OC mode

Boost: 1683 MHz / Base: 1569 MHz in Gaming mode



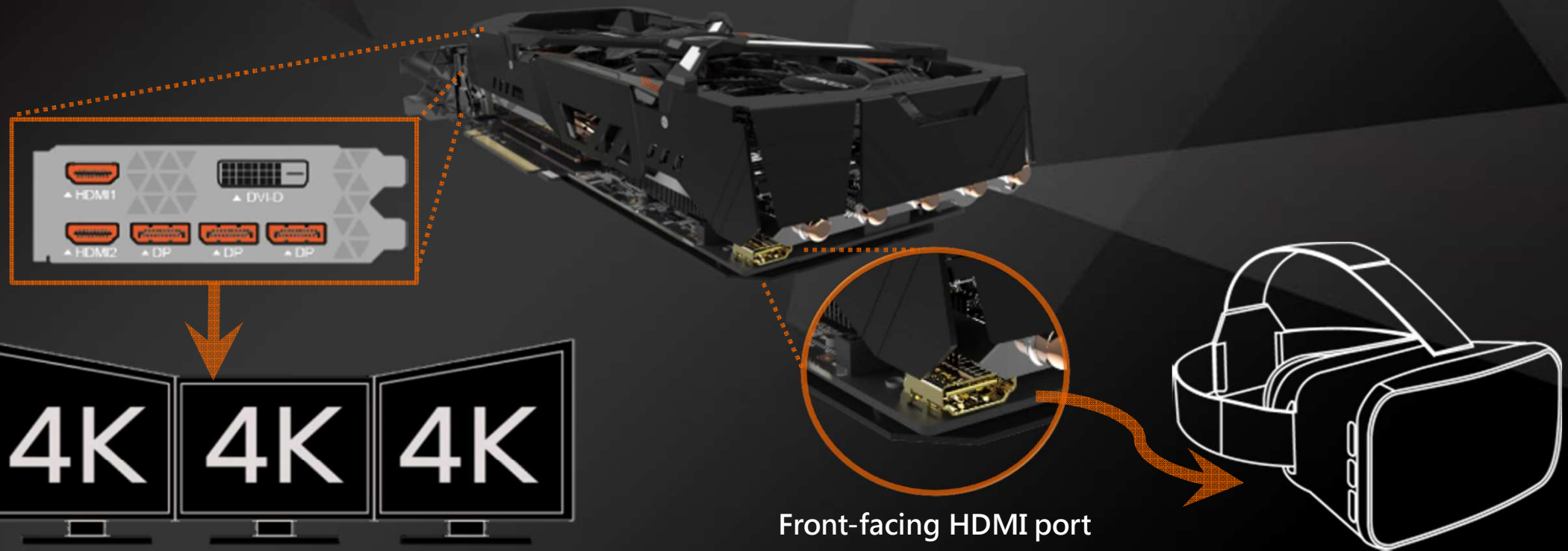
AORUS

# VR Link



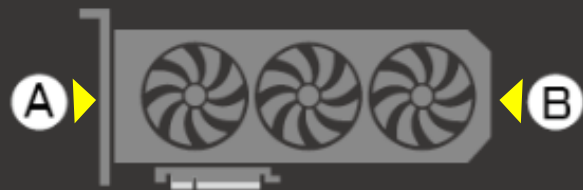
## AORUS VR Link

AORUS VR Link features 1 extra front-facing and 2 rear HDMI ports, letting you connect a VR device and up to 2 HDMI monitors at the same time without having to swap cables, so you can flexibly set up a display configuration that best fits your gaming needs.



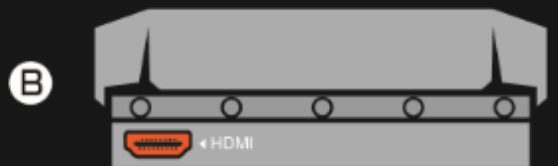
Front-facing HDMI port

# VR Link



## VR MODE

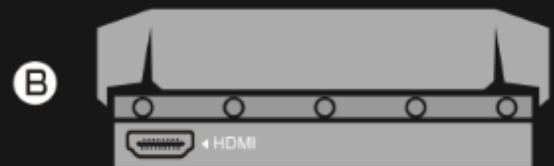
Optimized for your VR gaming setup



Select Max. 4 outputs from  
[ 3\*DP + 3\*HDMI ]

## STANDARD MODE

For connecting a DVI-D monitor



Select Max. 4 outputs from  
[ 3\*DP + HDMI 1 + DVI-D ]

Default setting is [ 3\*DP + 3\* HDMI ]

# Exclusive solution with 3\*DP and 3\*HDMI

## AORUS VR Link



Founders Edition  
GTX1080 Ti



ZOTAC  
GTX 1080 Ti AMP Extreme



ASUS  
ROG-STRIX-GTX1080TI



EVGA  
GTX 1080 Ti SC2 Gaming



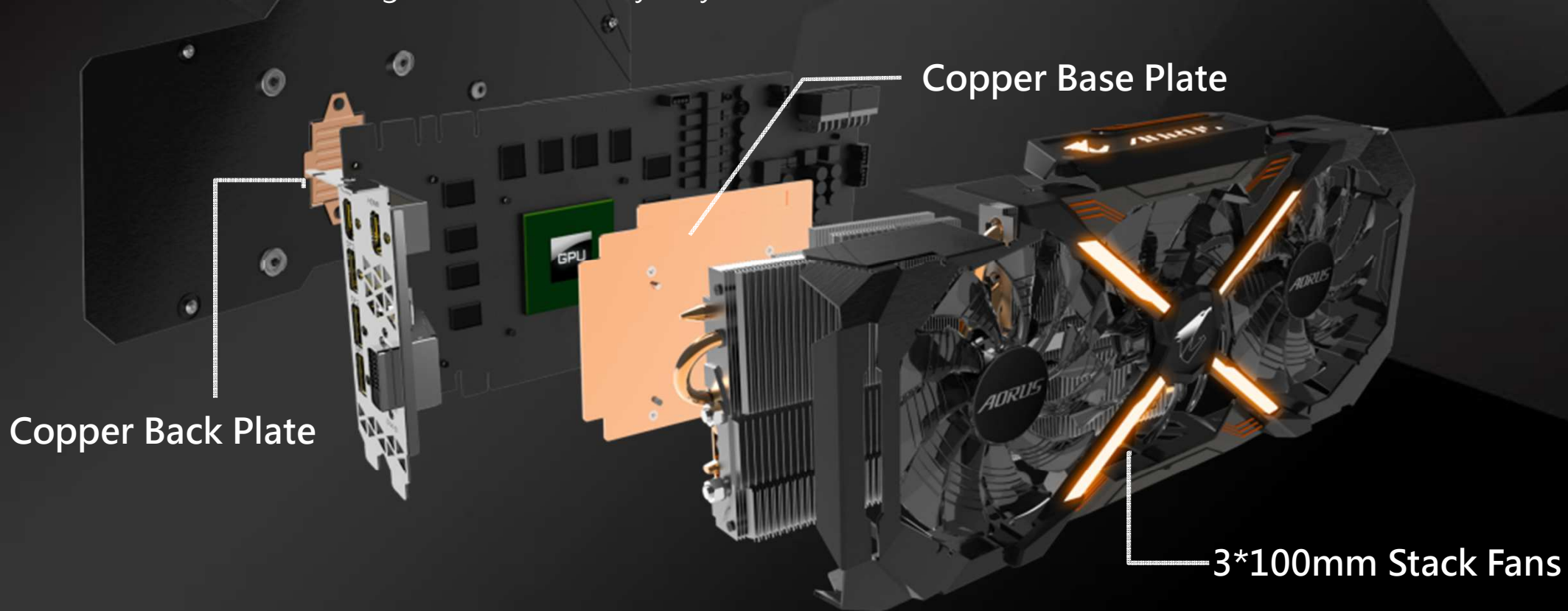
MSI  
GTX 1080 Gaming



# Cooling

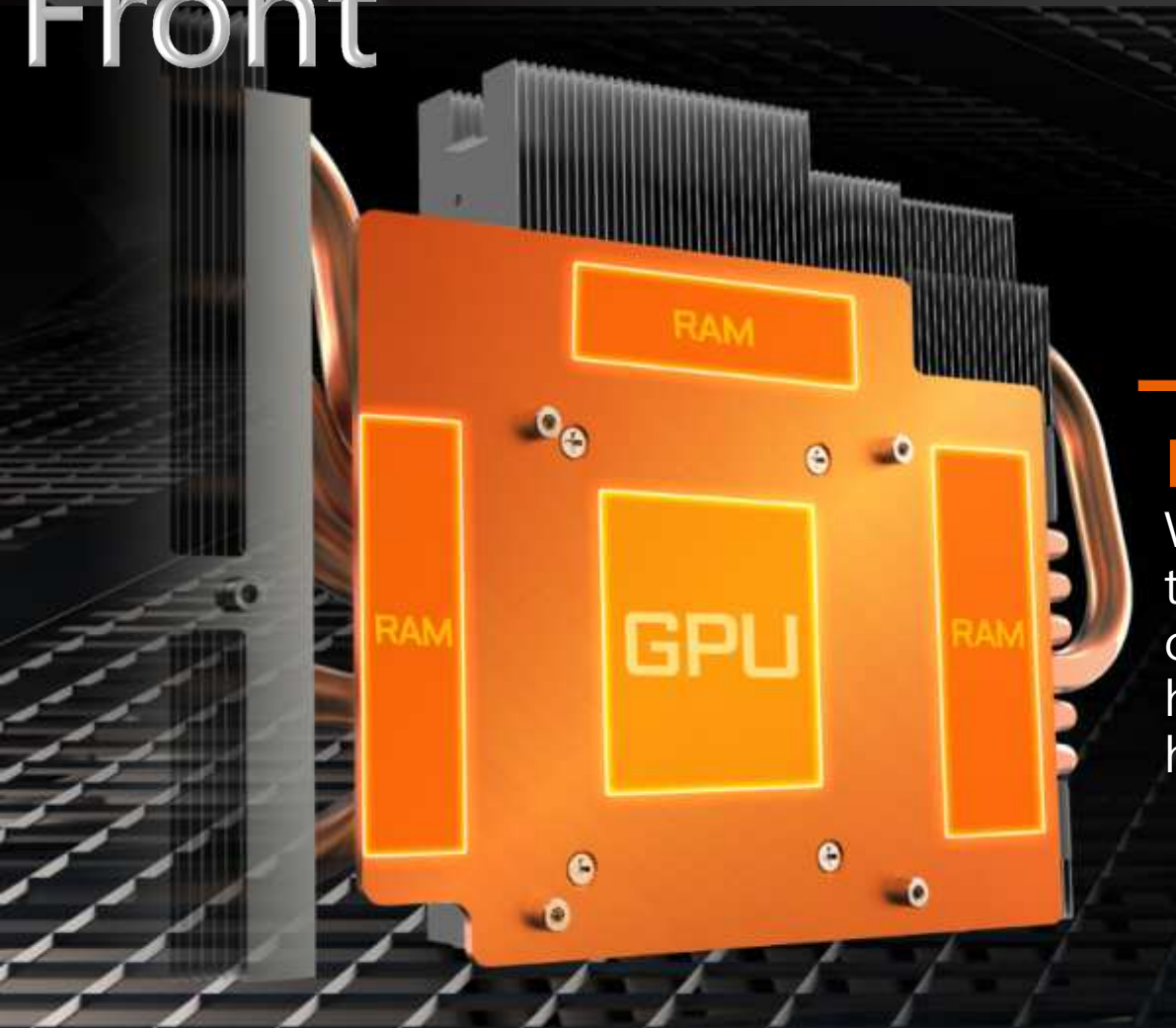
## AORUS All-around Cooling Solution

AORUS provides the all-around cooling solution for all key components of the graphics card. We take care not only GPU but also VRAM and MOSFET, to ensure a stable overclock operation and longer life. On the front side, the large copper base plate dissipates the most heat from the GPU and VRAM. On the back side, the copper back plate dissipates the heat from the GPU back side. All other key components are taken care of very well by the WINDFORCE cooling module. AORUS ensures the customer a better cooling solution in many ways.



## Cooling

# Front



# COPPER

## Large Copper Base Plate

With direct contact to the GPU and VRAM, the large copper base plate combines the composite heat pipes to efficiently transfer heat generated from the interior cores to the heat sink.

## Cooling

# COPPER

## BackPlate

### Advanced Copper Back Plate Cooling

Excessive heat from GPU not only gets dissipated utilizing the massive cooling module in the front but also through the back side with a copper plate, providing a well-rounded thermal solution for the GPU.



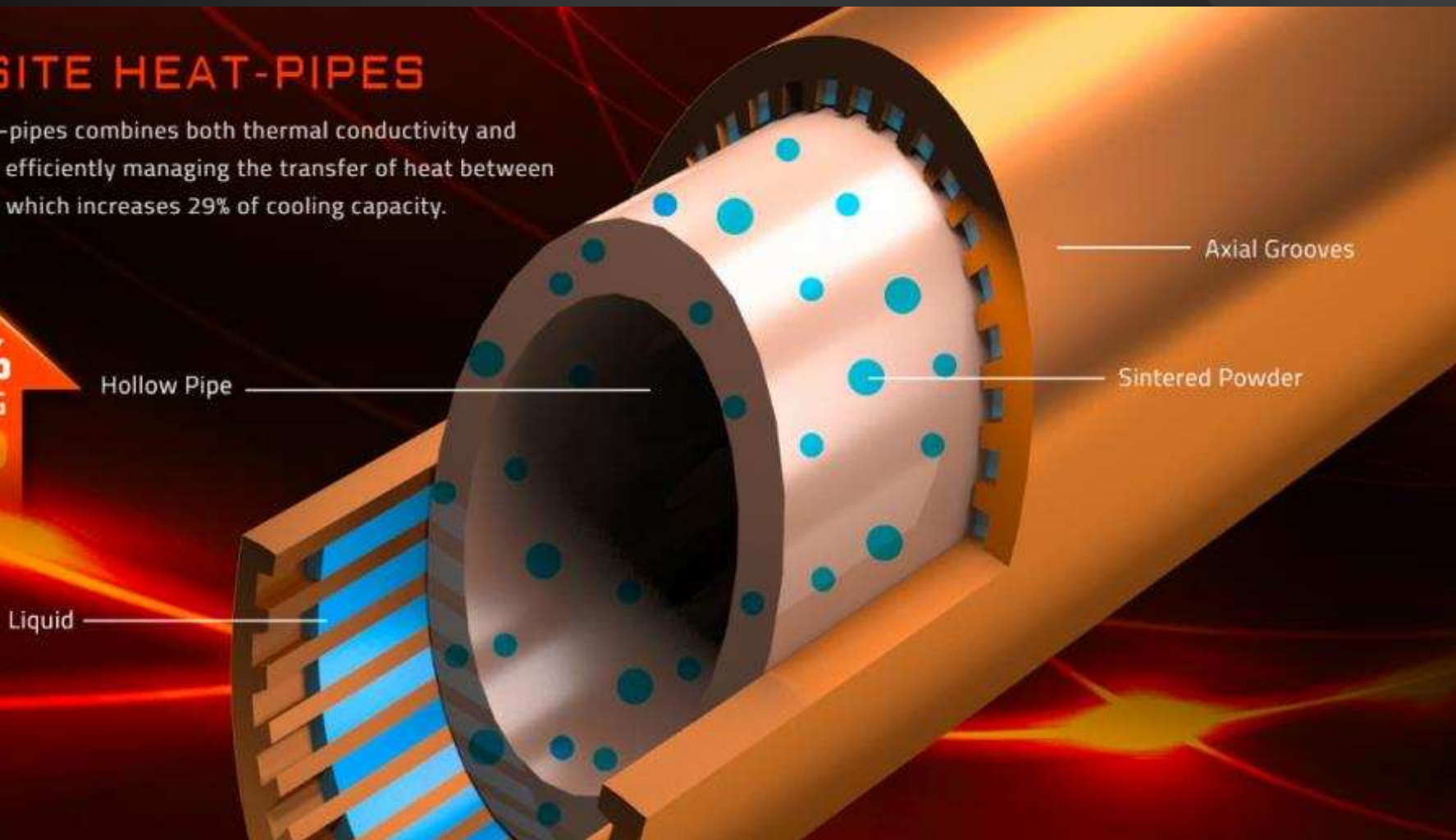


# Cooling

## COMPOSITE HEAT-PIPES

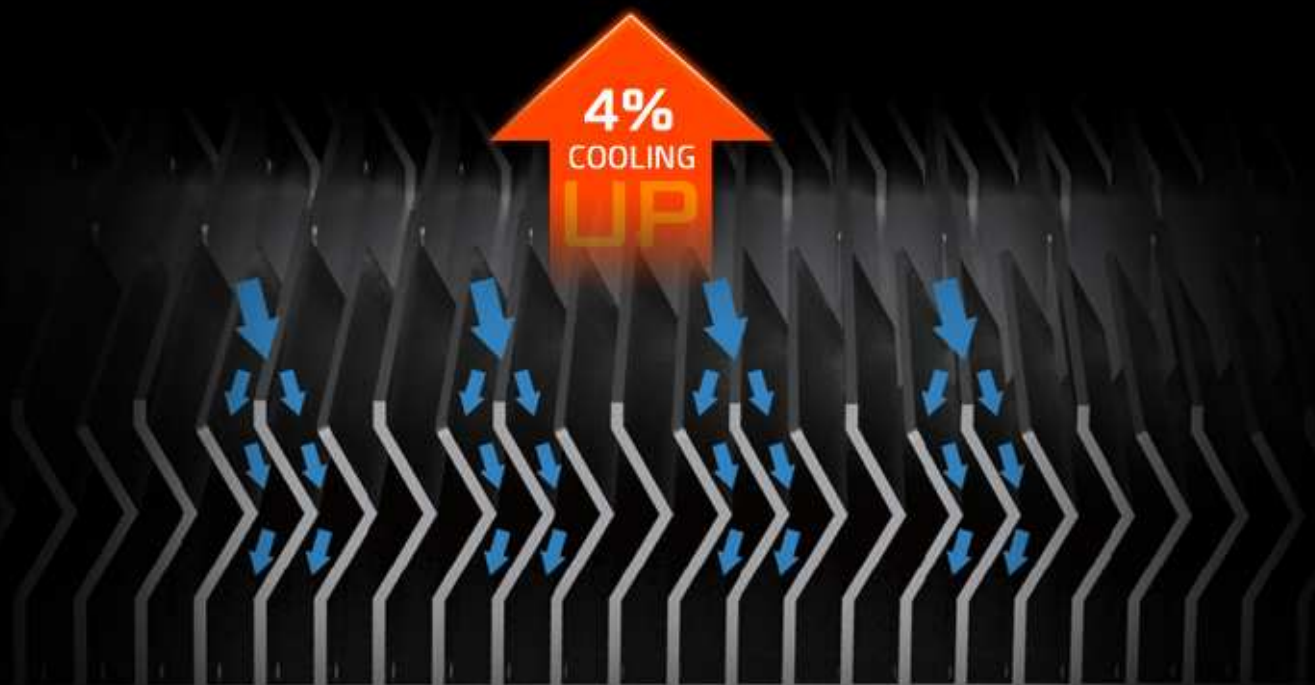
The composite heat-pipes combines both thermal conductivity and phase transition for efficiently managing the transfer of heat between two solid interfaces which increases 29% of cooling capacity.

29%  
COOLING  
UP



## ANGULAR FIN DESIGN

The angular and unequal fins height does not only channel the airflow through the fins and enlarge the contact surface but also results in a lower noise level and better cooling capacity.



# Cooling



## WINDFORCE Stack Fan

- ✓ Cover full heat sink with 3x 100mm fans
- ✓ 10% cooling up compare to traditional 3X fans
- ✓ Remain card length within 290mm



### INNER SIDE

Steep angle to increase the air intake

### OUTER SIDE

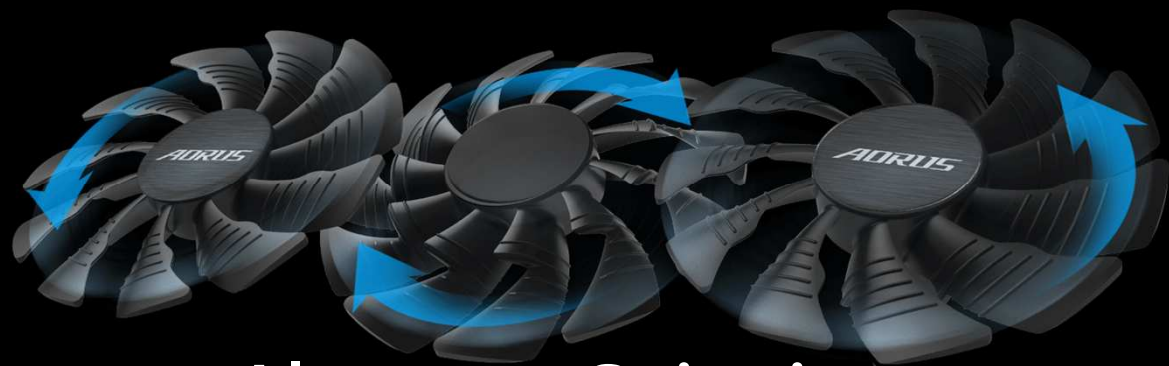
Gentle angle to stack with other fan and generate 2x airflow

# Cooling



## Windforce Stack

Cover full sink with 3X 100mm fans generate more airflow



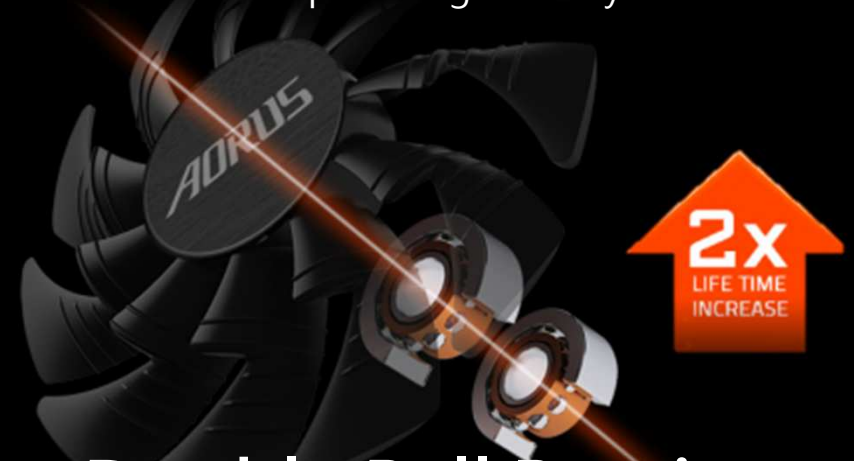
## Alternate Spinning

Decrease turbulence and optimize the airflow



## Unique Blade Fan

The airflow is split and guided by the curve



## Double Ball Bearing

Increase 2X fan-lifespan

# Cooling

## 3x 100mm Stack Fans generate much more airflow



3x 100mm Windforce Stack fans  
Alternate spinning and stack design



3x 80mm other fans  
All spin in the same counter-clockwise



No airflow →



↑ No airflow

# RGB Fusion



## RGB Fusion

With 16.8M customizable color options and numerous lighting effects, you could now choose the right scheme for your gaming rig through AORUS graphics engine.



# Performance

## GPU Gauntlet™ Sorting

Forged with only the top-notch GPU, the AORUS graphics cards guarantee higher overclocking capability in terms of excellent power switching, ensuring the highest performance without compromising system reliability.



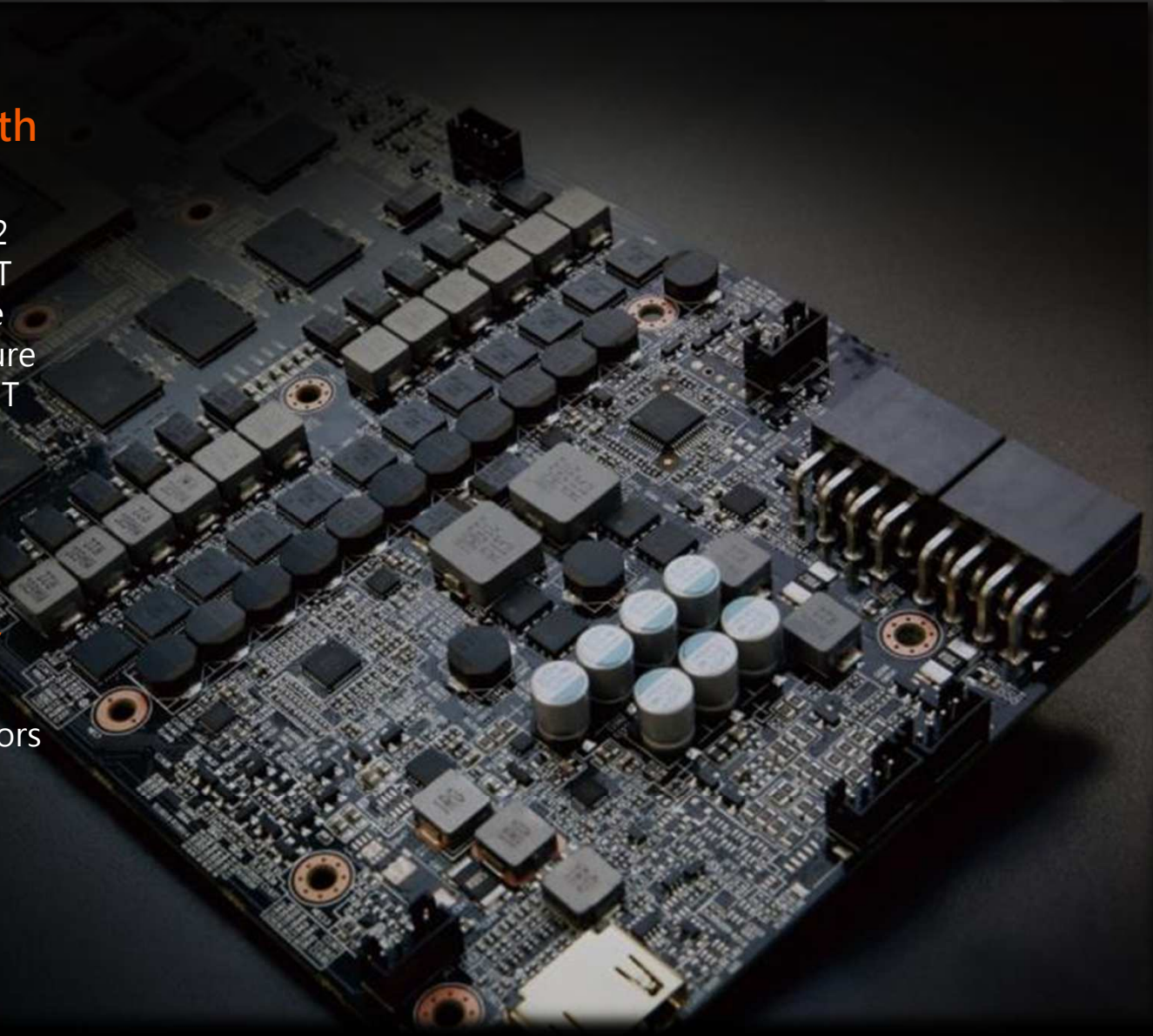
# Durability

## Built for extreme overclocking with 12+2 power phases

Compared to the founders edition, the 12+2 power phases on the card make the MOSFET working at a lower temperature and provide more stable voltage output. Over temperature protection and load balance to each MOSFET can effectively extend the card life.

## Titan X-grade Chokes and Capacitors for Extreme Durability

AORUS Graphics Cards are engineered with the same highest-grade chokes and capacitors as those of Titan X, delivering high quality performance and longer system lifespan.





# Durability

## Protection Metal Back Plate

Glorious black metal back plate provides the solid protection, strengthens the structure and inspires the passion for gaming.



# Durability

**LED power indicators to show if the PCI-E voltage from PSU is stable**

Be alert when PCI-E voltage is unstable with the smart power LED indicators.



## LED indicators

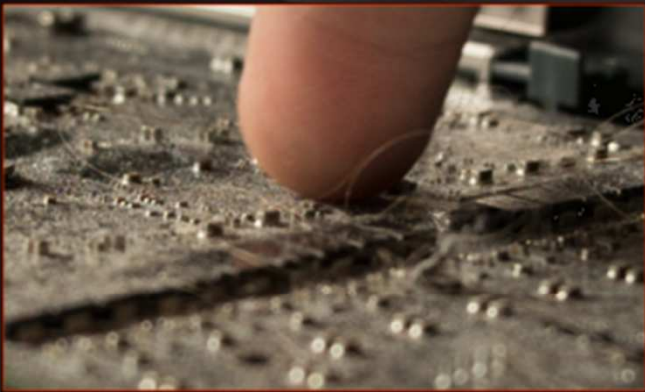
Light on : power cable disconnected

Light off : stable power supply

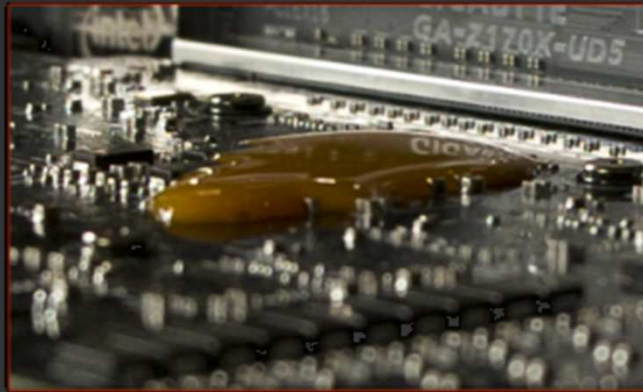
Blinking : abnormal power supply

# Durability

## Aerospace-grade PCB Coating for Best Protection



Dust -resistant shields the circuit board from dust, insects, dropped screws, drill shavings, and abrasion.



Moisture-resistant prevents unwanted conduction paths and board damage.

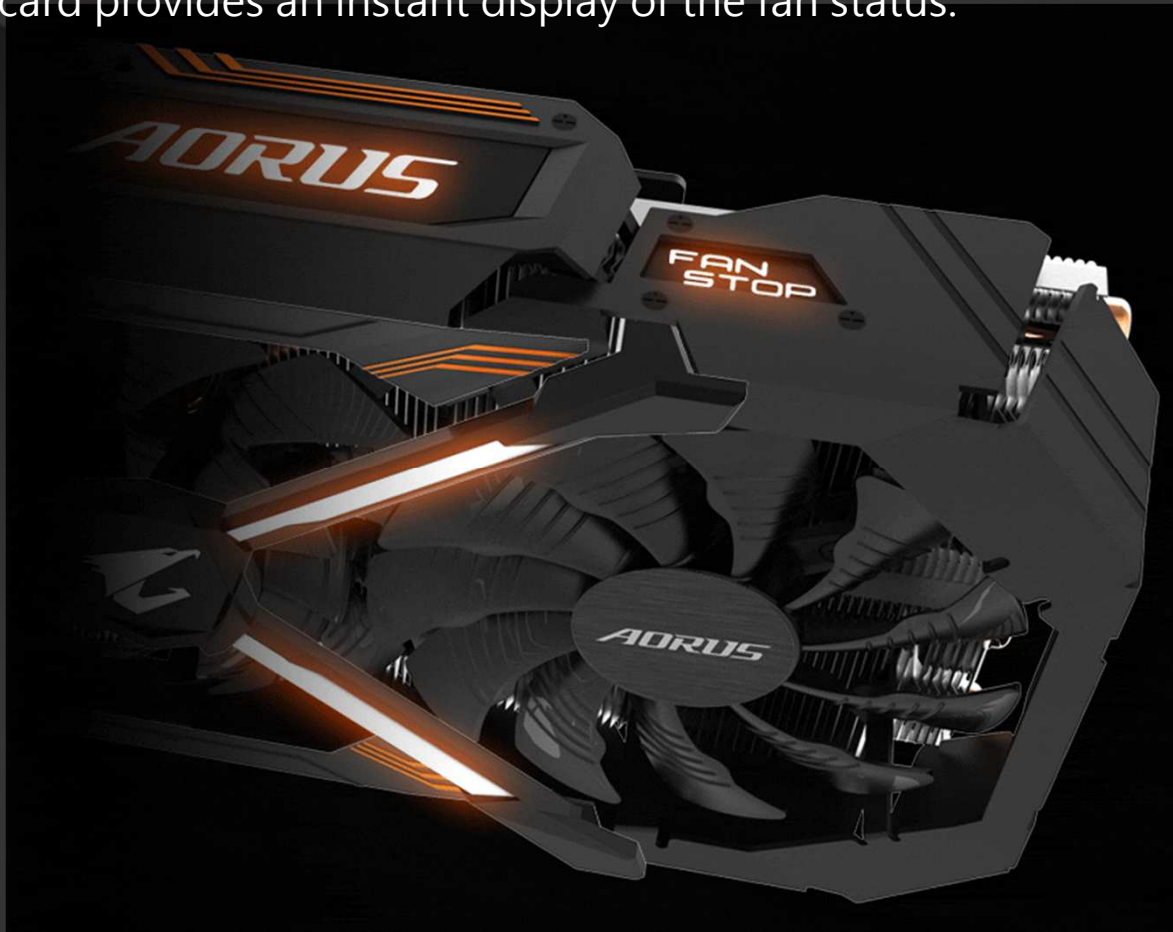


Corrosion-resistant protects boards from environmental contaminants, such as salt spray, humidity, and corrosion.

# Cooling

## 3D Active Fan With RGB Led Indicators

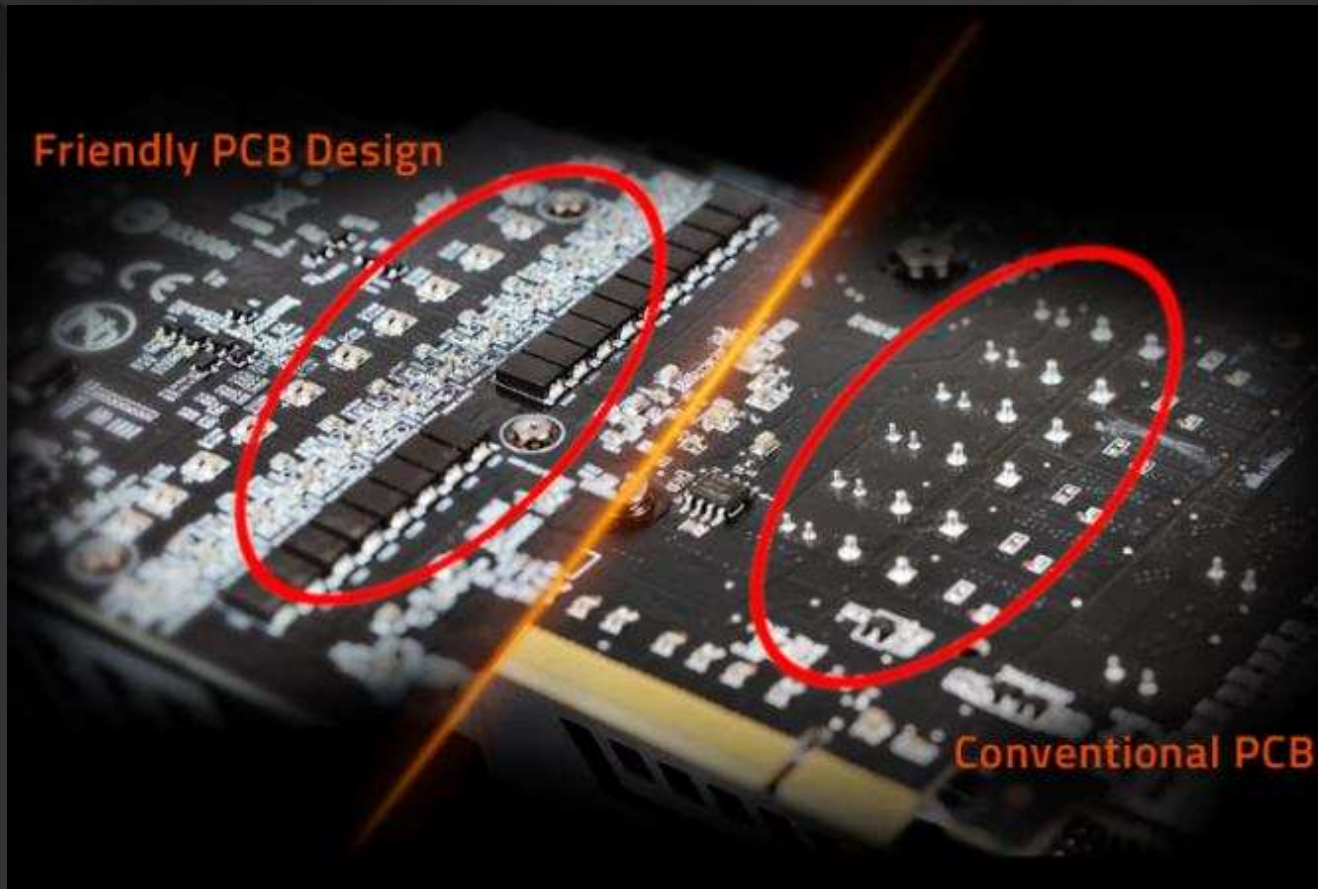
The AORUS graphics cards are equipped with 3D-Active Fan. The fans will remain off when the GPU is under a set loading or temperature for low power gaming. The LED fan indicator on the top of the graphics card provides an instant display of the fan status.



# Friendly

## Friendly PCB Design thanks to Fully Automated Production Process

Fully automated production process ensures top quality of the circuit boards and eliminates sharp protrusions of the solder connectors seen on the conventional PCB surface. This friendly design prevents your hands from getting cut or inadvertently damaging components when making your build.



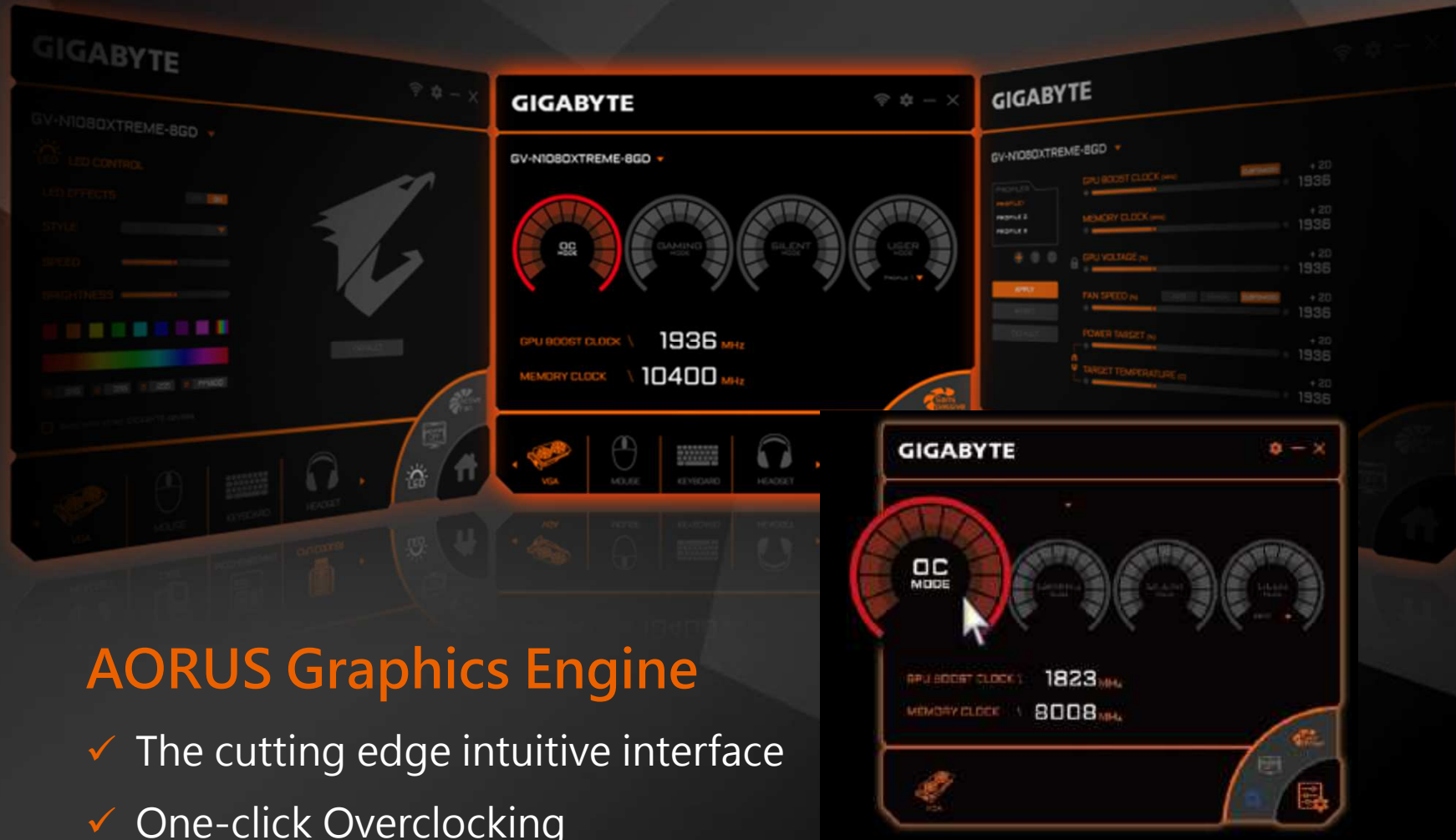
# Performance

## Boost Game Performance via SLI Technology

Supports for 2-way SLI configuration, AORUS SLI HB(High Bandwidth) bridge doubles the available transfer bandwidth bridge compared to the previous generation to deliver ultimate experience at 4K gameplay or surround gaming. The AORUS SLI bridge features 16.8M customizable color lighting and numerous effects, you could also synchronize the lighting with the graphics cards through AORUS Engine utility.



# Utility



## AORUS Graphics Engine

- ✓ The cutting edge intuitive interface
- ✓ One-click Overclocking

# Spec

## Performance

Graphics Processing	NVIDIA GeForce GTX 1080 Ti
Core Clock	Boost: 1708 MHz / Base: 1594 MHz in OC mode Boost: 1683 MHz / Base: 1569 MHz in Gaming mode

## Memory

Memory Clock	11010 MHz
Memory Size	11 GB
Memory Type	GDDR5X
Memory Bus	352 bit

## Interface

Card Bus	PCI-E 3.0 x16
Output (*)	Dual-link DVI-D *1 HDMI-2.0b*3 (Max Resolution: 4096x2160 @60 Hz) Display Port-1.4 *3 (Max Resolution: 7680x4320 @60 Hz) (* Standard mode (Dual-link DVI-D*1, DP1.4*3, HDMI 2.0b*1) (* VR mode (DP*3, HDMI*3)

## Display Resolution

Max Digital Resolution	7680x4320
Multi-view/ Max Display	4

## Dimension

Card size	TBD
PCB Form	ATX

## Support

DirectX Support	DirectX 12 API with feature level 12_1
OpenGL Support	OpenGL 4.5

## Requirements

Recommended PSU	600W
Power Connectors	8 pin*2