



*AORUS*

**AORUS GTX1080 Ti Xtreme**

**Sales kit**

# AORUS GeForce GTX 1080 Ti Xtreme Edition 11G

GV-N108TAORUS X-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 with RGB AORUS LOGO Illumination  
Built for Extreme Overclocking 12+2 Power Phases  
4 Years Warranty (Online registration required)

## Core Clock

Boost: 1746 MHz / Base: 1632 MHz in OC mode  
Boost: 1721 MHz / Base: 1607 MHz in Gaming mode



AORUS

# VR Link

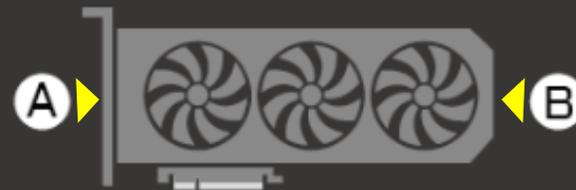


## AORUS VR Link

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.



# VR Link



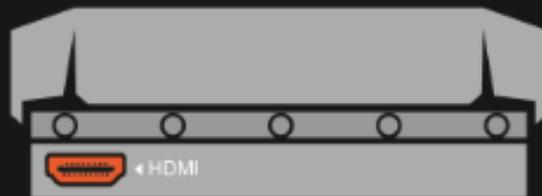
## VR MODE

Optimized for your VR gaming setup

A



B



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

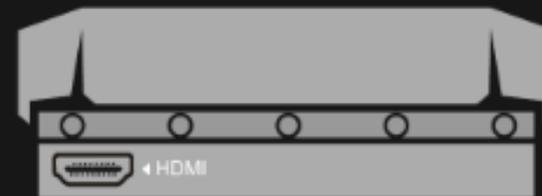
## STANDARD MODE

For connecting a DVI-D monitor

A



B



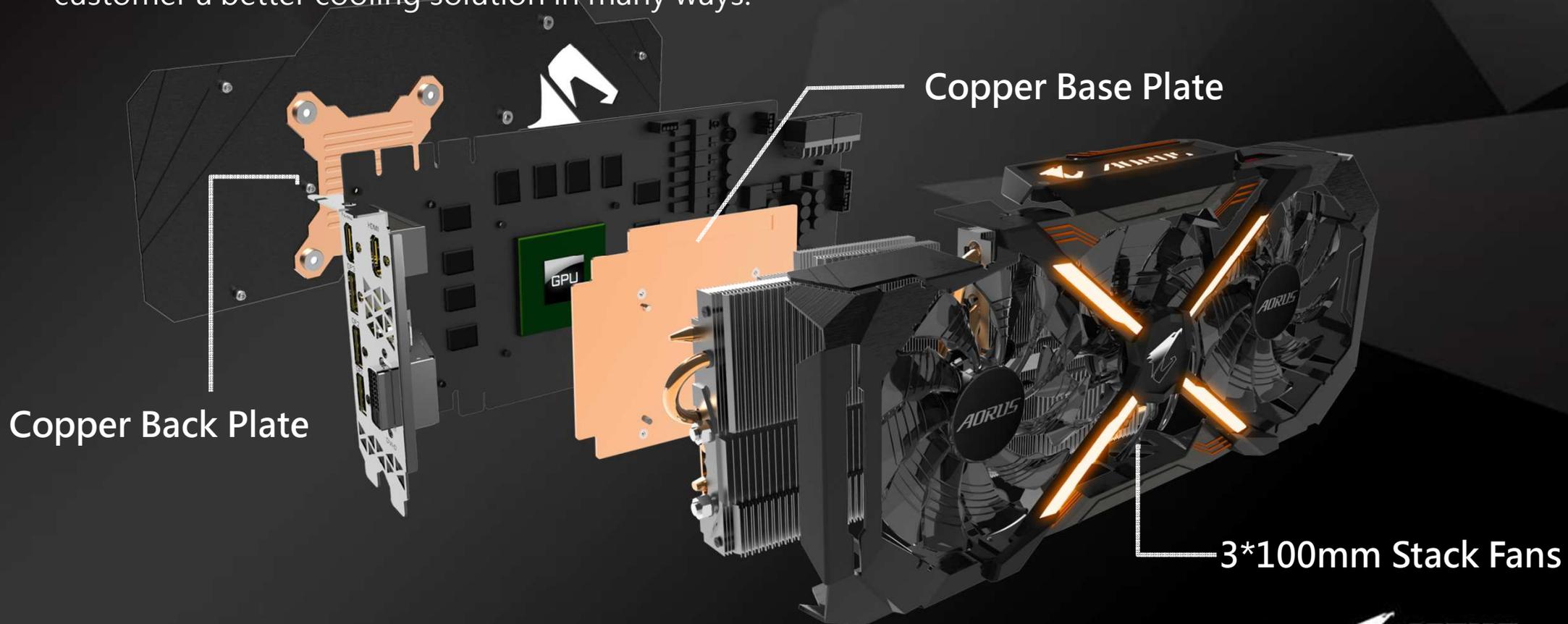
Select Max. 4 outputs from  
[ 3\*DP + HDMI 1 + DVI-D ]

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

# Cooling

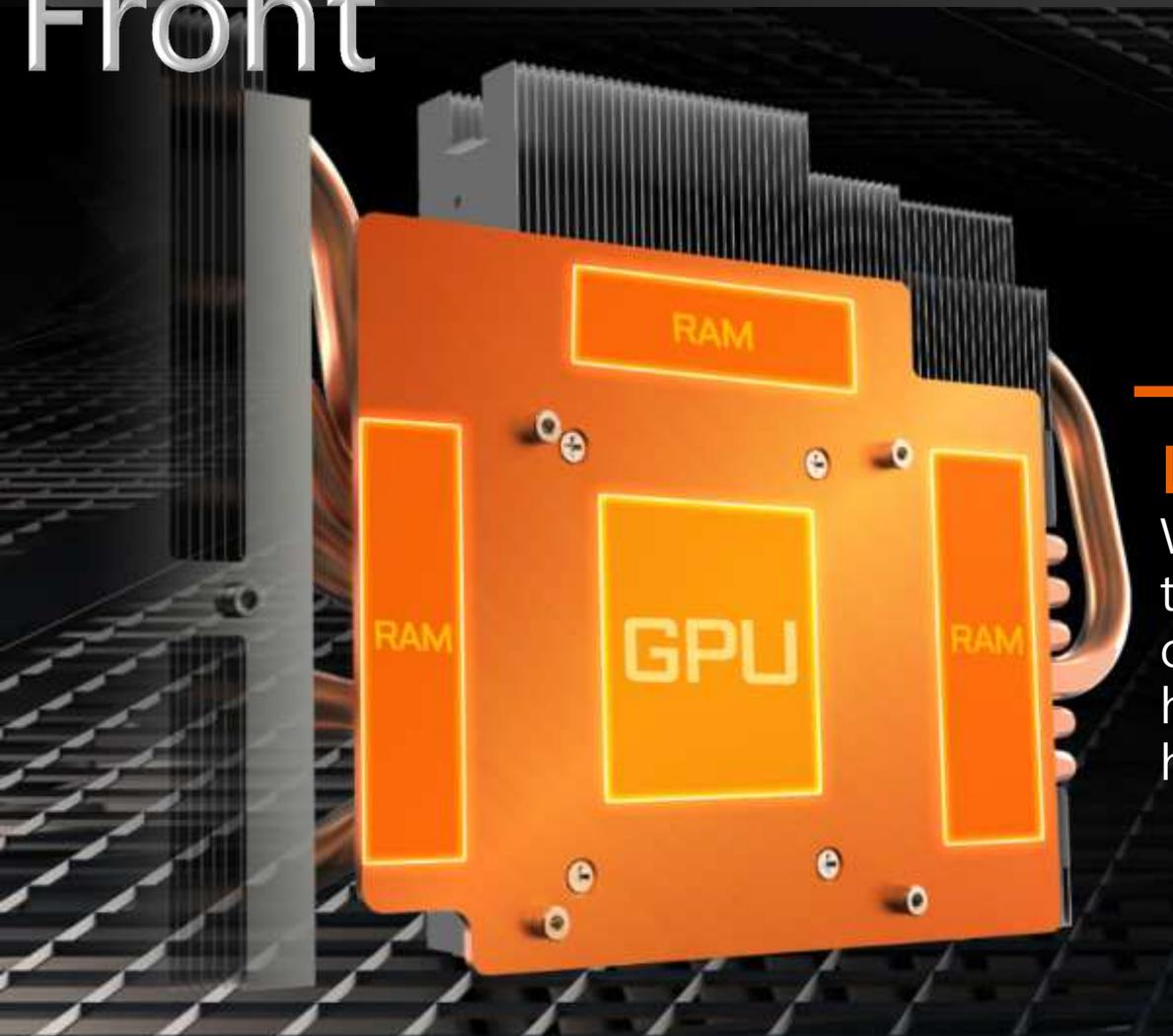
## AORUS All-around Cooling Solution

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.

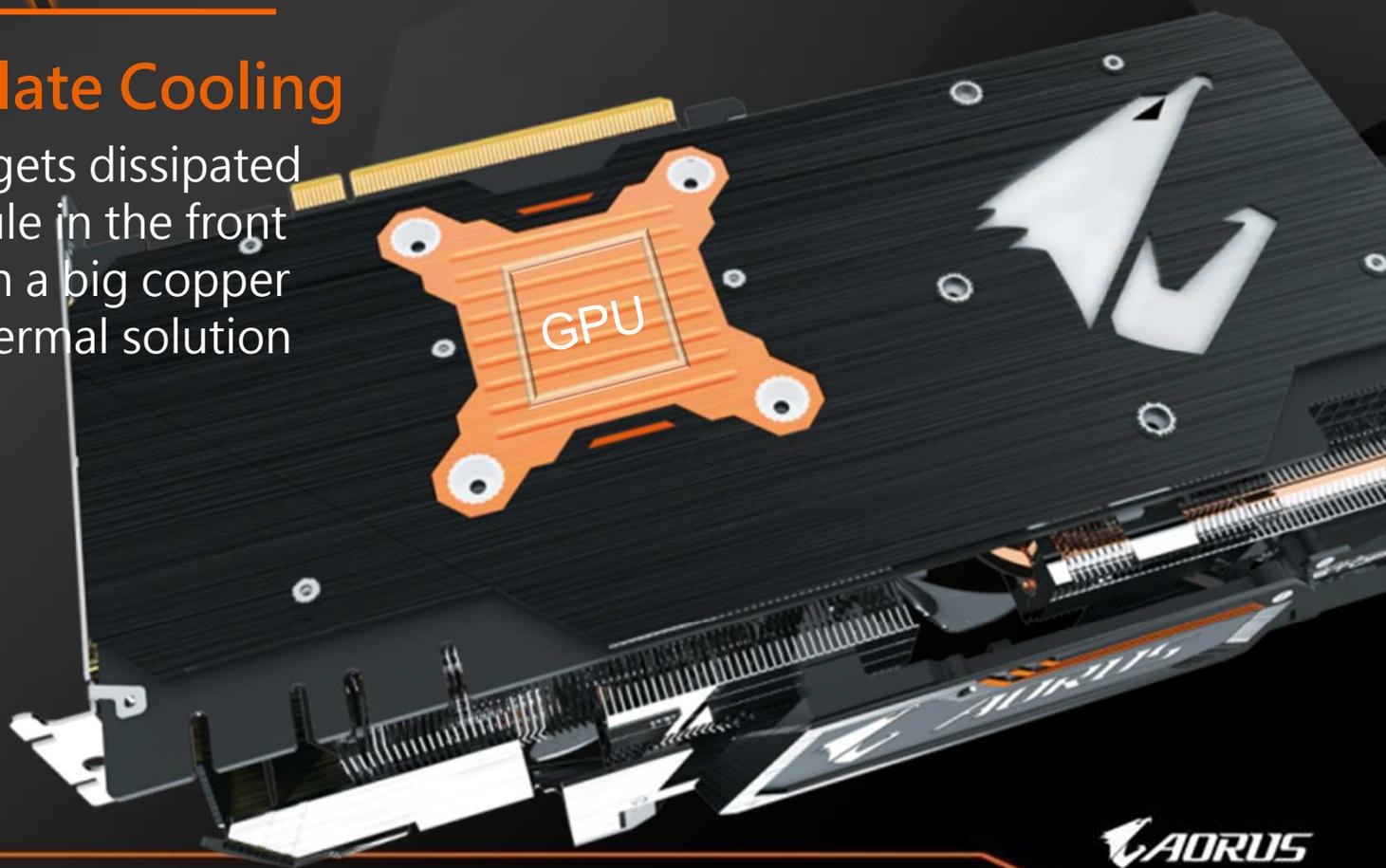
## Cooling

# COPPER

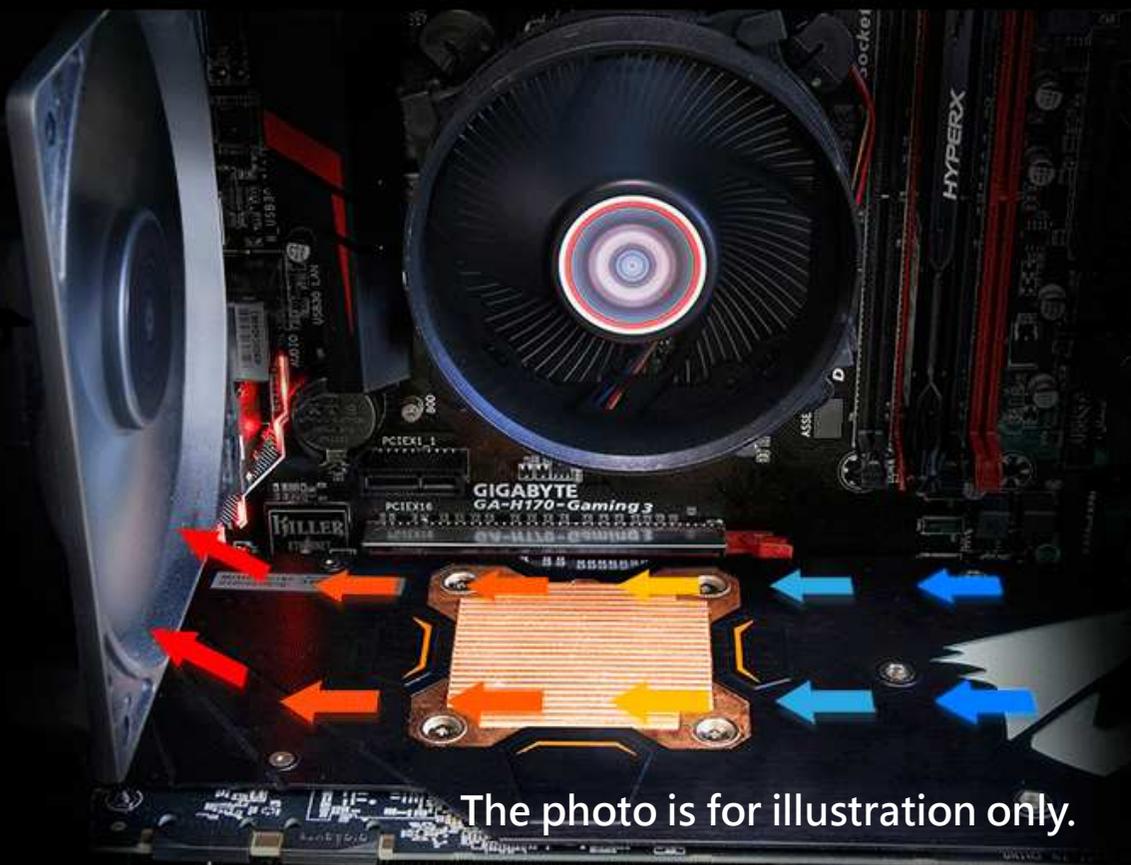
## BackPlate

### 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 big copper plate, providing a well-rounded thermal solution for the GPU.



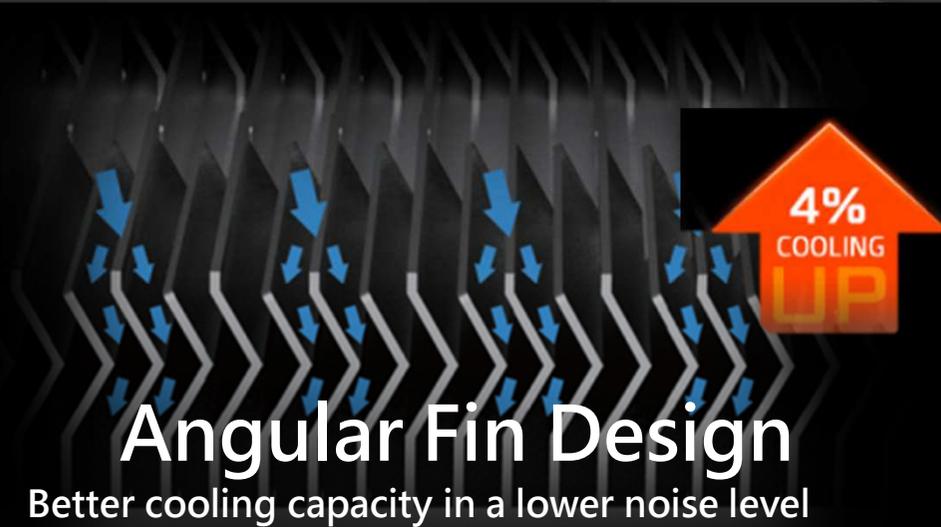
# Cooling



The photo is for illustration only.

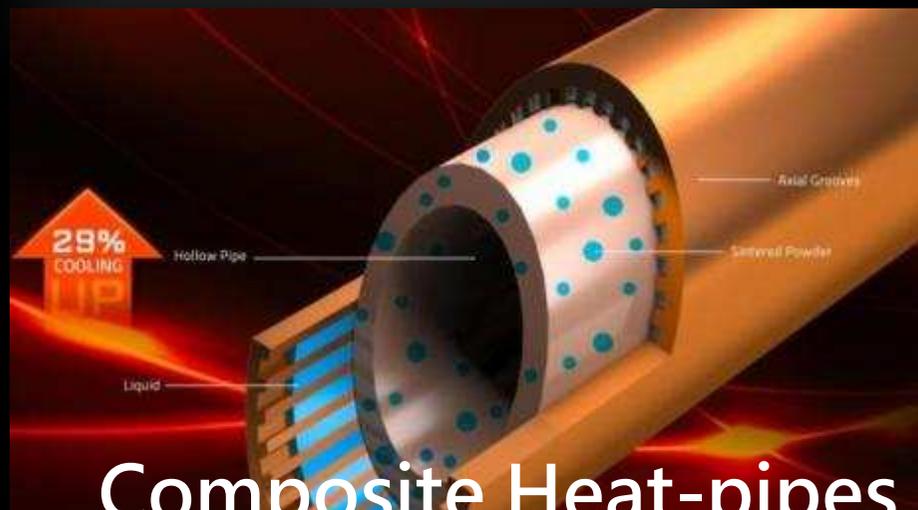
## The Stripe Matters

The stripes on the copper plate not only increase the dissipating surface and guide the airflow from system



## Angular Fin Design

Better cooling capacity in a lower noise level



## Composite Heat-pipes

Combines both thermal conductivity and phase transition for efficiently managing the transfer of heat

# 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

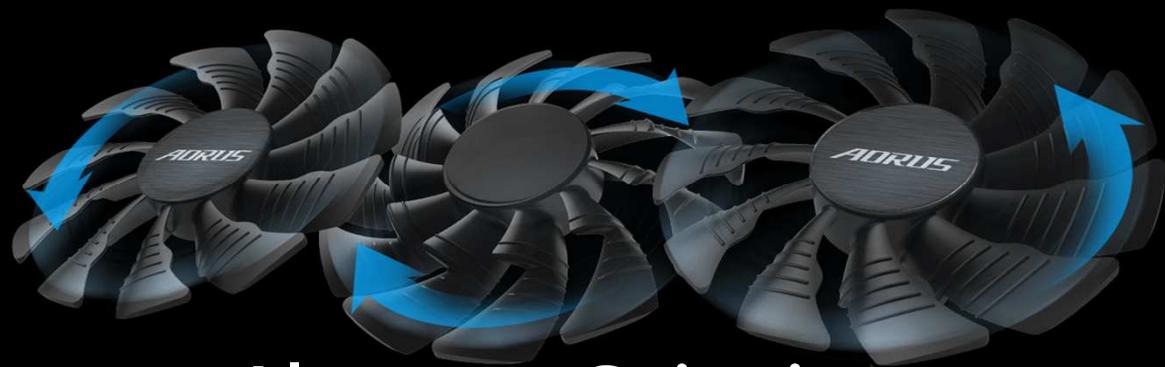
Gentle angle to stack with other fan and generate 2x airflow

# Cooling



## Windforce Stack

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



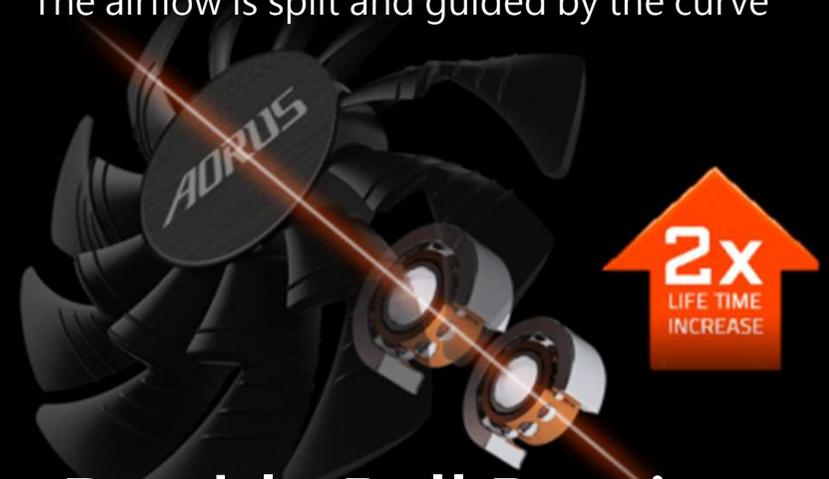
## Alternate Spinning

Decrease turbulence and optimize the airflow



## Unique Blade Fan

The airflow is split and guided by the curve



## Double Ball Bearing

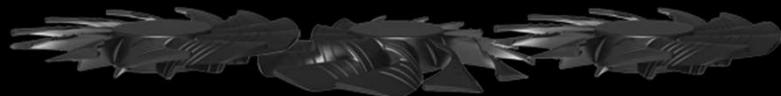
Increase 2X fan-lifespan

# Cooling

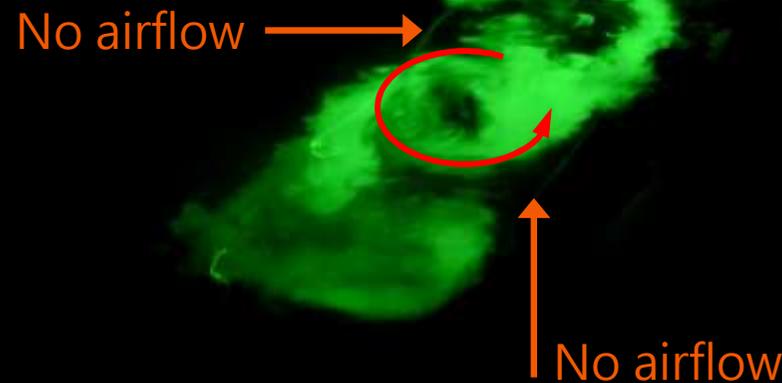
3x 100mm Stack Fans generate much more airflow



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



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



# 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.



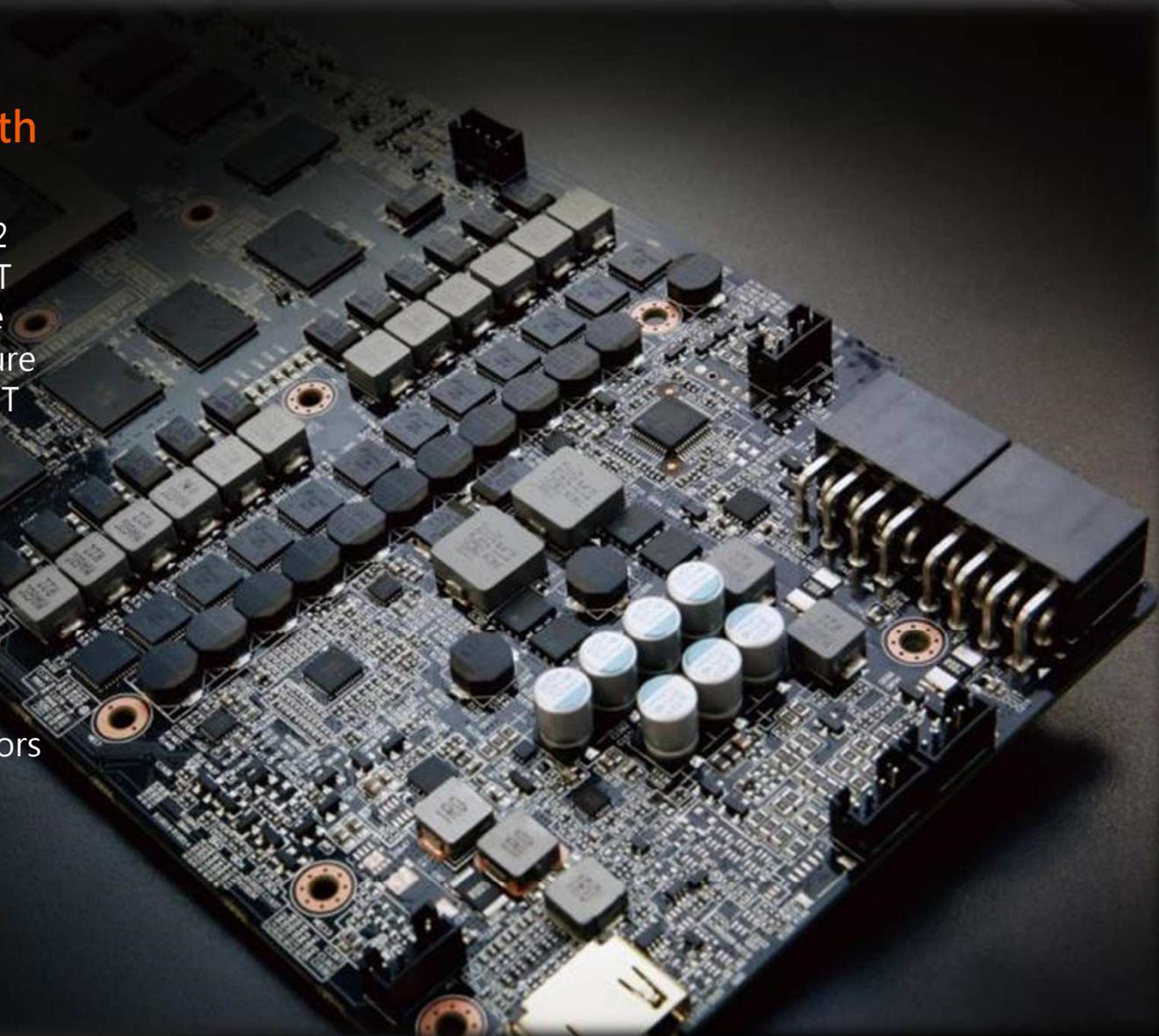
# Durability

## 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

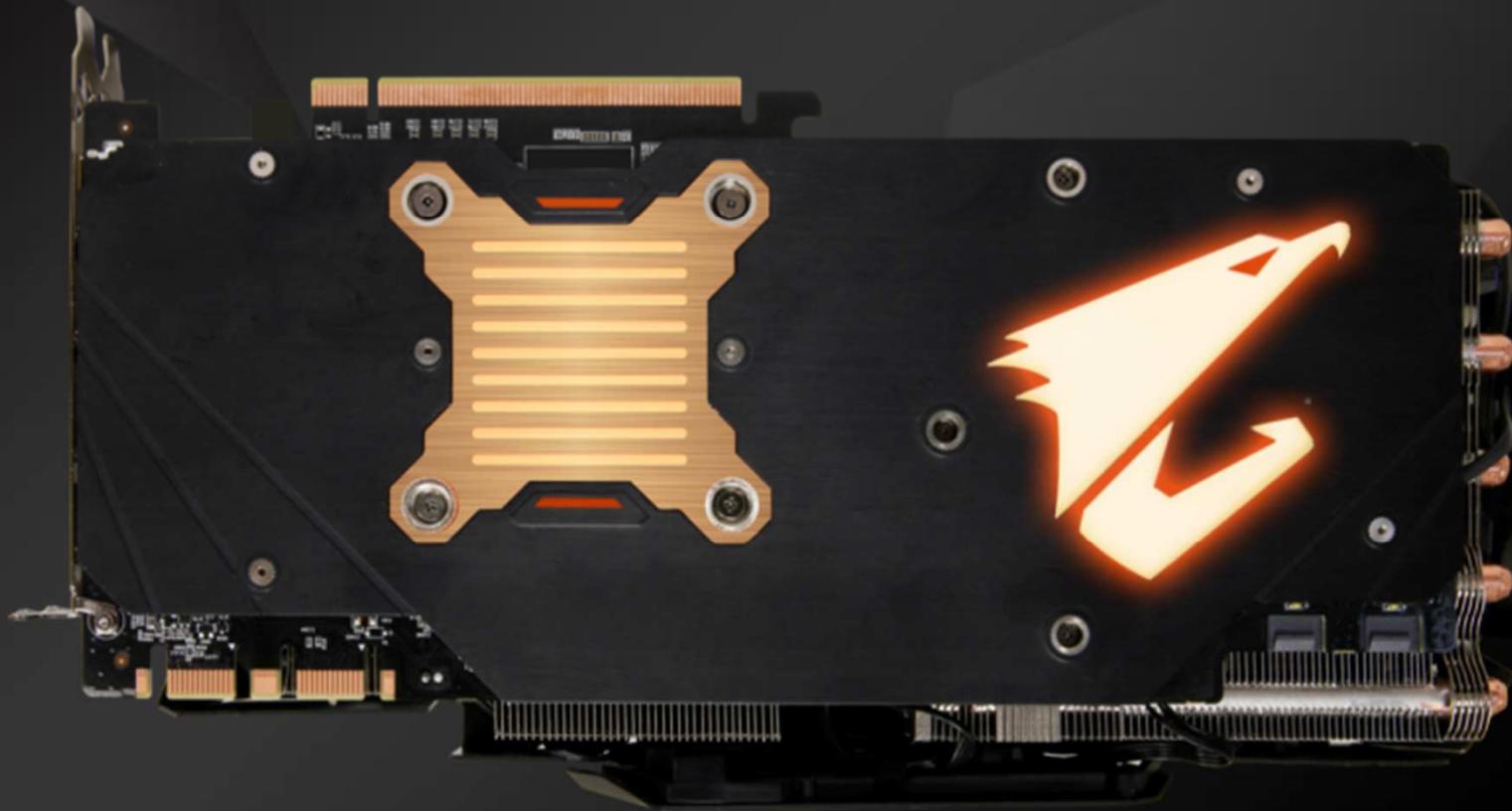
AORUS Graphics Cards are engineered with the same highest-grade chokes and capacitors as those of Titan X, delivering high quality performance and longer system lifespan.



# 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

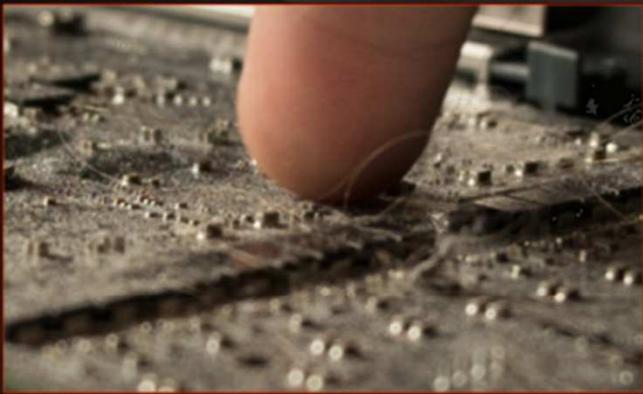
Light on : power cable disconnected

Light off : stable power supply

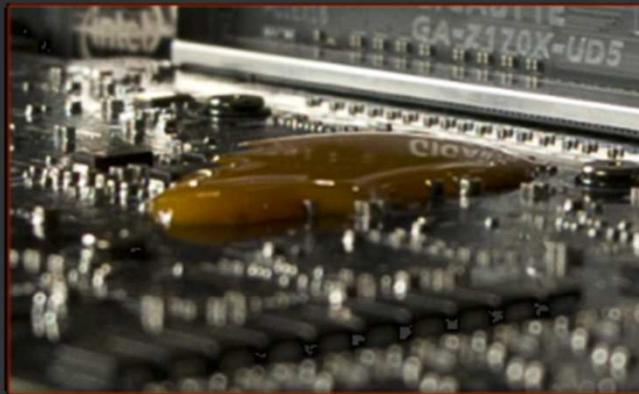
Blinking : abnormal power supply

# 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.

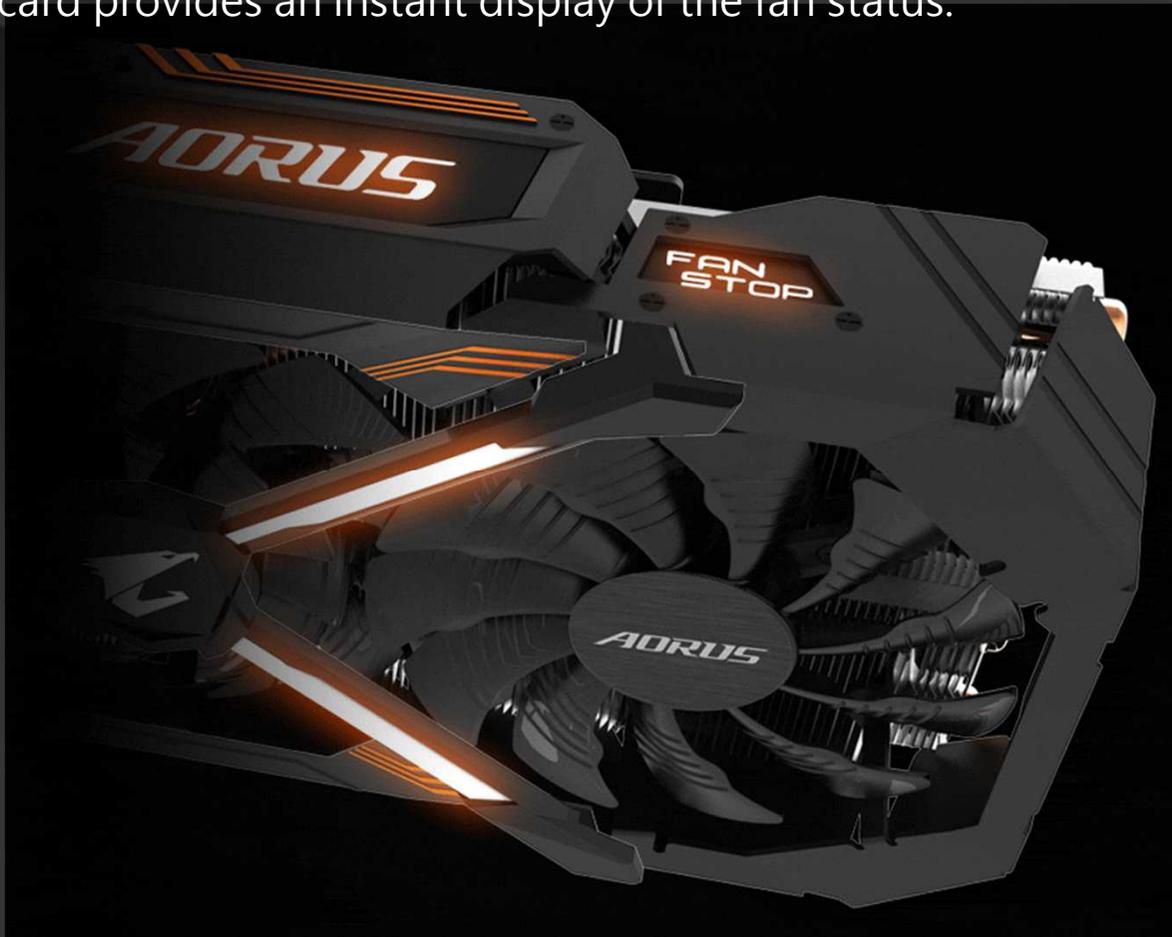


Corrosion-resistant protects boards from environmental contaminants, such as salt spray, humidity, and corrosion.

# Friendly

## 3D Active Fan With RGB Led Indicators

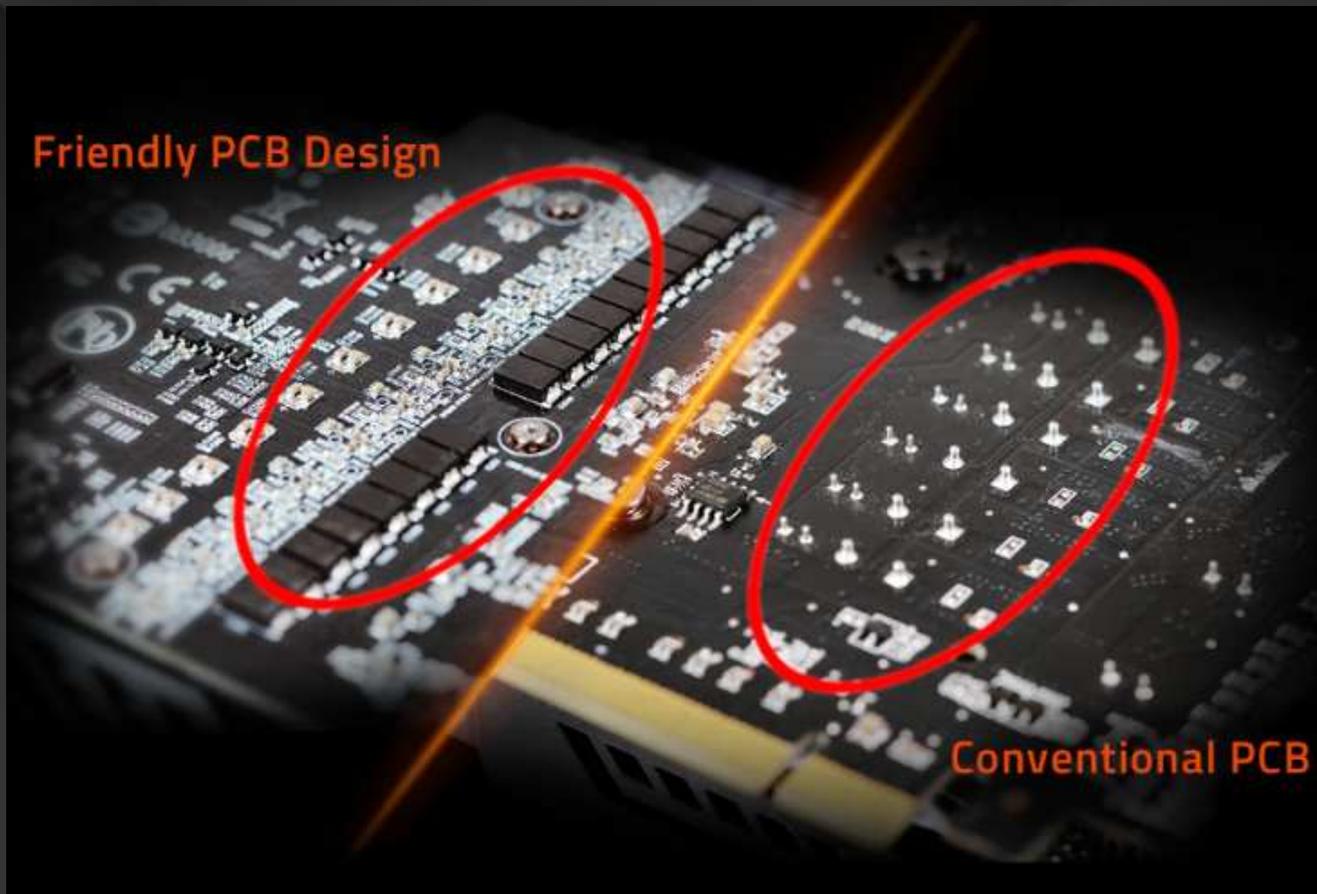
The AORUS graphics cards are equipped with 3D-Active Fan. The fans will remain off when the GPU is under a set loading or temperature for low power gaming. The LED fan indicator on the top of the graphics card provides an instant display of the fan status.



# 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.



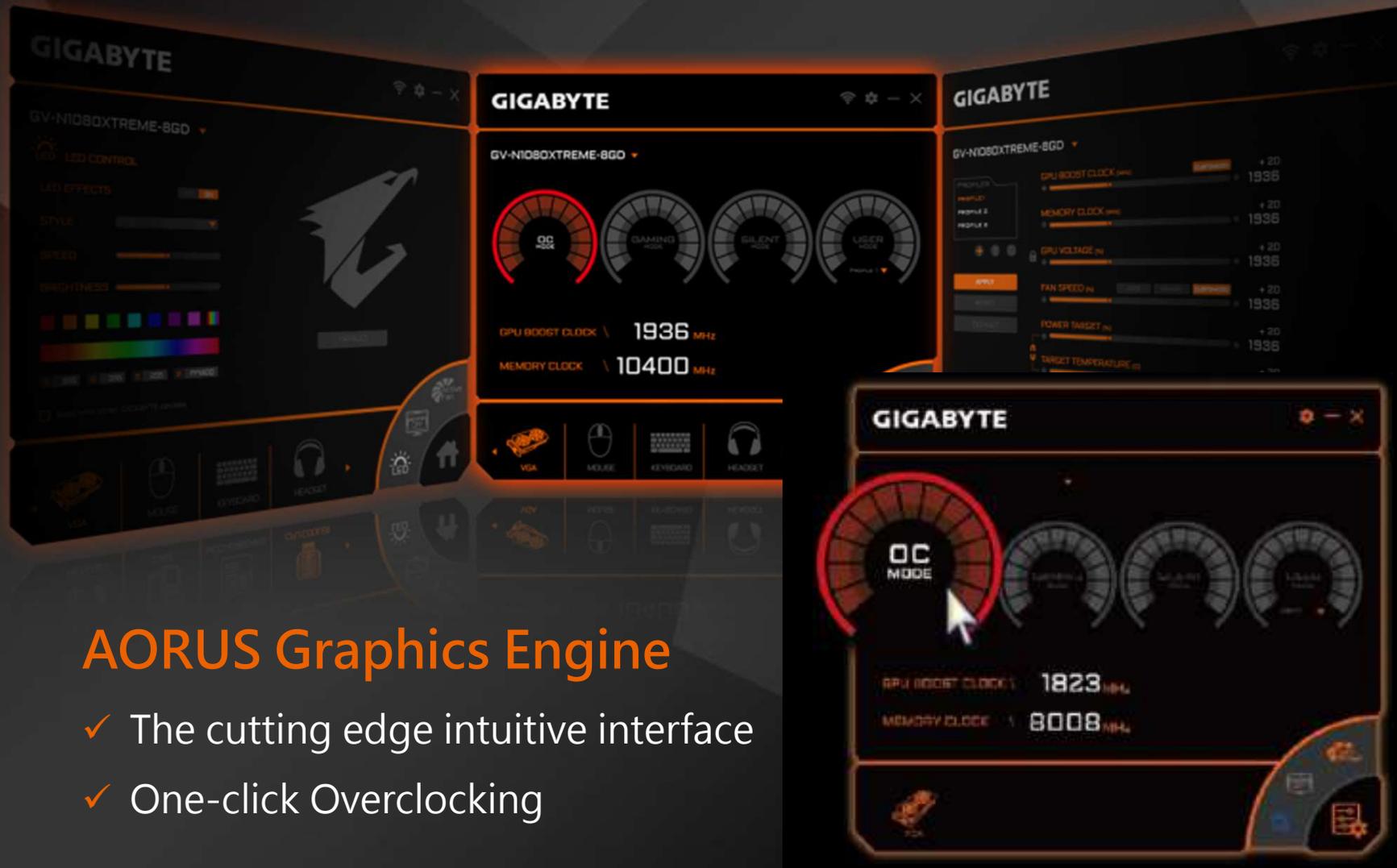
# Performance

## 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 RGB lighting** with the graphics cards through AORUS Engine utility.



# Utility



## AORUS Graphics Engine

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

# AORUS Care

## Register online to get free 4 year extended warranty

- We want your experience with AORUS to be the best you have ever had. This is why, on top of our standard 3-year warranty, we would like to offer you an additional 1 year of AORUS Care protection to your AORUS graphics card free of charge. Register online to get 4 years warranty.



# Spec

## Performance

Graphics Processing	NVIDIA GeForce GTX 1080 Ti
Core Clock	Boost: 1746 MHz / Base: 1632 MHz in OC mode Boost: 1721 MHz / Base: 1607 MHz in Gaming mode

## Memory

Memory Clock	OC mode: 11448 MHz Gaming mode: 11232 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) (* VR mode (DP*3, HDMI*3) Standard mode (Dual-link DVI-D*1, DP1.4*3, HDMI 2.0b*1)

## Display Resolution

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

## Dimension

Card size	TBD
PCB Form	ATX

## Support

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

## Requirements

Recommended PSU	600W
Power Connectors	8 pin*2