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# H310M S2H 2.0 (rev. 1.0)

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Intel® H310 Chipset

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Intel H310 Ultra  
Durable motherboard  
with GIGABYTE 8118  
Gaming LAN, PCIe  
Gen2 x2 M.2, HDMI  
1.4, DVI-D, D-Sub  
Ports for Multiple  
Display, Anti-Sulfur  
Resistor, Smart Fan 5,  
CEC 2019 ready

- Supports 9th and 8th Gen Intel® Core™ Processors
- Dual Channel Non-ECC Unbuffered DDR4
- 8-Channel HD Audio with High Quality Audio Capacitors
- Ultra-Fast M.2 with PCIe Gen2 X2 & SATA interface
- GIGABYTE Exclusive 8118 Gaming LAN with Bandwidth Management
- HDMI 1.4, DVI-D, D-Sub Ports for Multiple Display
- CEC 2019 Ready, Save Power With a Simple Click



- Smart Fan 5 features Multiple Temperature Sensors and Hybrid Fan Headers with FAN STOP
- All new GIGABYTE™ APP Center, simple and easy use
- Anti-Sulfur Resistors Design



D-Sub

DVI



HDMI

USB 3.1 Gen1 Type-A

Realtek 8118 Gaming LAN

Audio Noise Guard

Audio Capacitors

High Quality Onboard Audio Design

# CONNECTIVITY

**Exclusive Realtek 8118 Gaming**  
High Speed Gigabit LAN with Automatic Bandwidth Allocation

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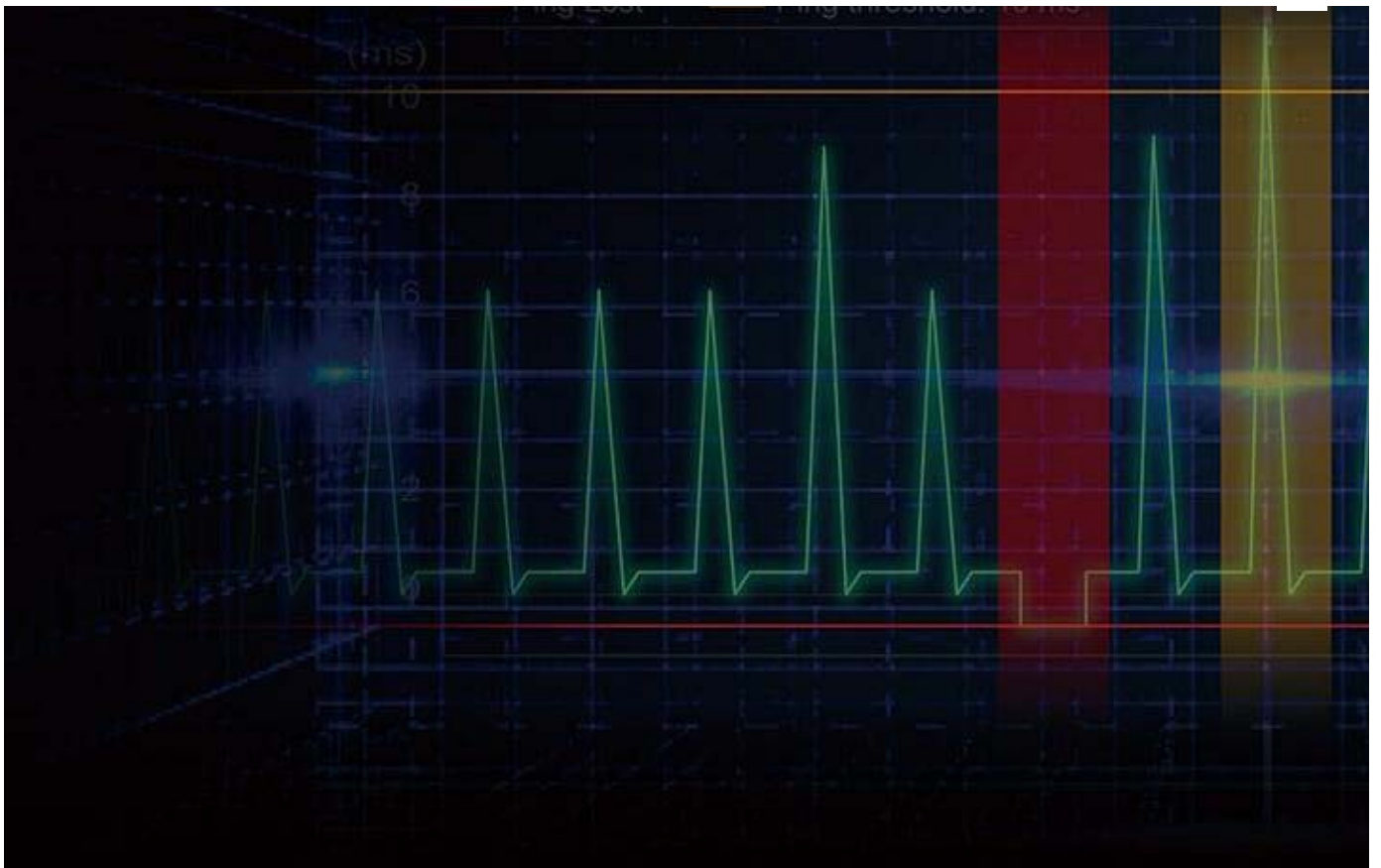
Realtek 8118 LAN is a high performance and friendly network chip for gaming players with the game or application. It can provide users the most comprehensive features and the

## Program On Top Gets Highest Priority



## Real-Time Network Monitoring





# NVMe PCIe Gen2 x2 2280 M.2 Connector

GIGABYTE Motherboards are focused on delivering M.2 technology to enthusiasts who want to maximize their system's potential.

**Learn more about CONNECTIVITY**

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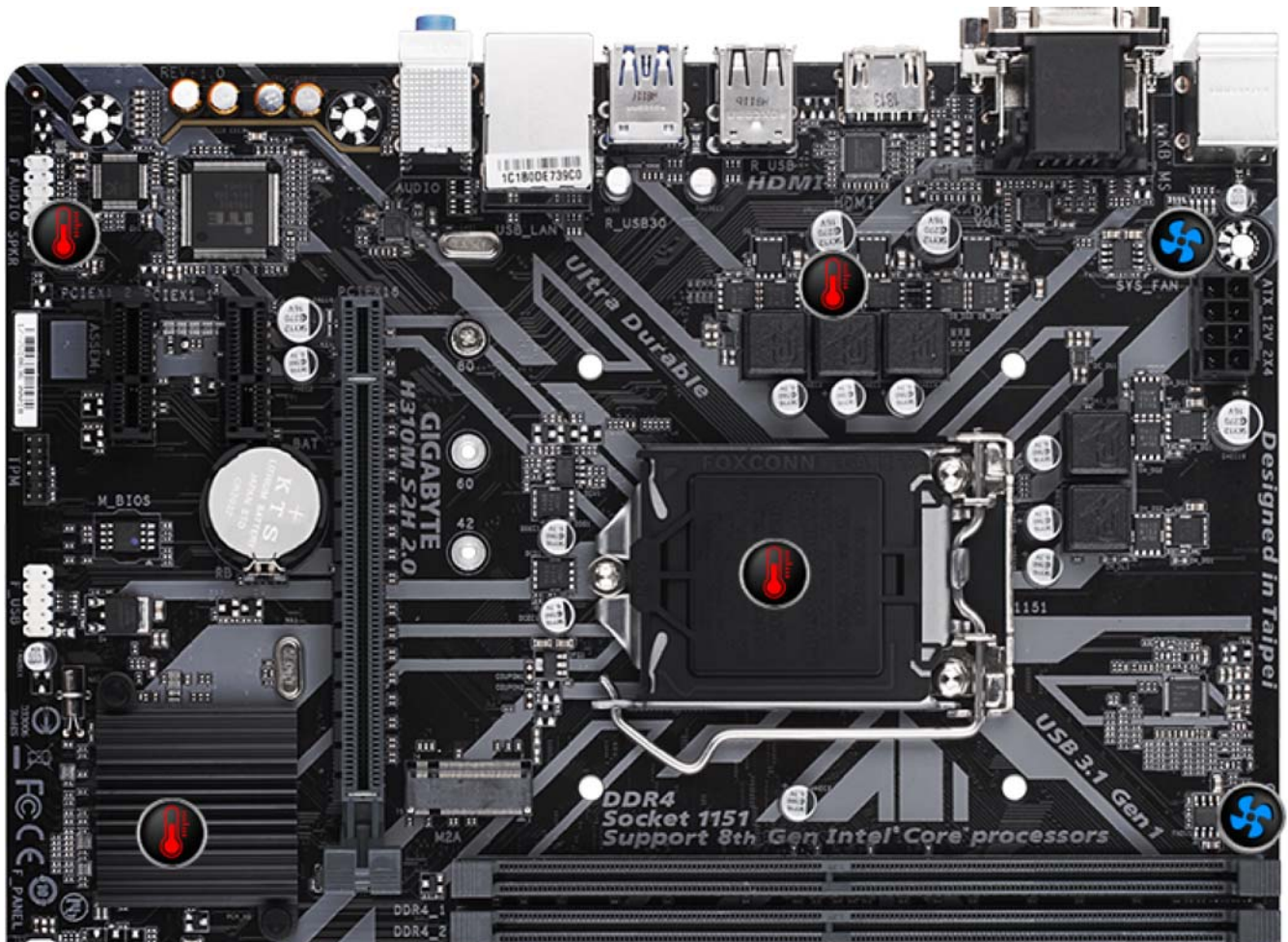


# COOLING



## Smart Fan

With Smart Fan 5 users can ensure that the system stays cool. Smart Fan 5 allows users to interact with the motherboard. Not only that, but PWM and Voltage mode fans have





## Temperature Sensors



## Fan Pin Headers

Different models have different number of fan pin headers and temperature sensors. Smart Fan 5 function may vary by model.



Achieve fan silence. With Fan Stop map any fan to stop completely when temperatures drop below a specified threshold. Which fan stops, based on readings from which sensor, and at what temperature—all of it can be customized to your liking.

## Intellig



# Hybrid Fan Pin Headers

Assume complete control over your liquid cooling setup! Smart Fan 5 receives up-to-the-s giving you absolute mastery over your PC.

All Hybrid Fan Headers can automatically detect the type of cooling device whether it be f



# Hybrid Fan Pin Header



**Closed Loop  
Watercooling**



**CPU Fan**



**System**

Learn more about **COOLING**

# PERFORMANCE



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# Gaming Experience



- > VR requires more performance than Full HD graphics for a steady 90FPS or greater.
- > Only Gaming PCs can provide the best VR experience

## Recommended configuration for VR Gaming PC\*

- Graphics Card: NVIDIA GTX 1060 / AMD RX 480 or greater, Compatible HDMI 1.4 video output.
- CPU: Intel i5 equivalent or greater
- Motherboard: GIGABYTE H370 / B360 / H310 series motherboards
- Memory: 8GB RAM or greater
- USB Ports: 3x USB 3.0 ports plus 1x USB 2.0 port or greater
- OS: Windows 10 64-bit or newer

\*Please check VR vendor website for full system requirements.

To create a seamless VR experience GIGABYTE Motherboards offer the best features to n such as NVMe support via M.2 or U.2 it's obvious that GIGABYTE has the tools you need t

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VR Gaming photo for reference only.

# AUDIO





# High-End Audio Capacitors

GIGABYTE motherboards use high-end audio capacitors. These high quality capacitors help provide realistic sound effects for gamers.

## Audio Noise Guard

GIGABYTE motherboards feature an audio noise guard that essentially separates the audio components from the rest of the PCB level.

# ULTRA DURABLE

## GIGABYTE Patented Double Insulation

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# START SULFUR



Sulfur  
c. ar  
moth  
GIG/



# The Industry's Leading Surge Protection

GIGABYTE motherboards also feature special anti-surge IC that protect your motherboard from irregular electrical spikes.





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There is nothing more harmful to the longevity of your PC than moisture, and most parts of the world experience moisture in the air as humidity at some point during the year. GIGABYTE motherboards have been designed to make sure that humidity is never an issue, incorporating a new Glass Fabric PCB technology that repels moisture caused by humid and damp conditions. Glass Fabric PCB technology uses a new PCB material which reduces the amount of space between the fiber weave, making it much more difficult for moisture to penetrate compared to traditional motherboard PCBs. This offers much better protection from short circuit and system malfunction caused by humid and damp conditions.

# High Temperature Protection Low Design

GIGABYTE motherboards use Low RDS(on) MOSFETs which reduce energy wastage through heat dissipation. This all amounts to tangible energy savings which are beneficial for both environment without impacting system performance.



# GIGABYTE EXCELLENCE

## CEC 2019 Ready



Save the power as easy as one click

CEC Requirement : PC power consumption must be less than 1W in idle mode. With high power efficiency hardware components, Gigabyte can meet the lower power consumption under idle mode and power consumption requirement.

**GIGABYTE Design**

**Old Platforms**

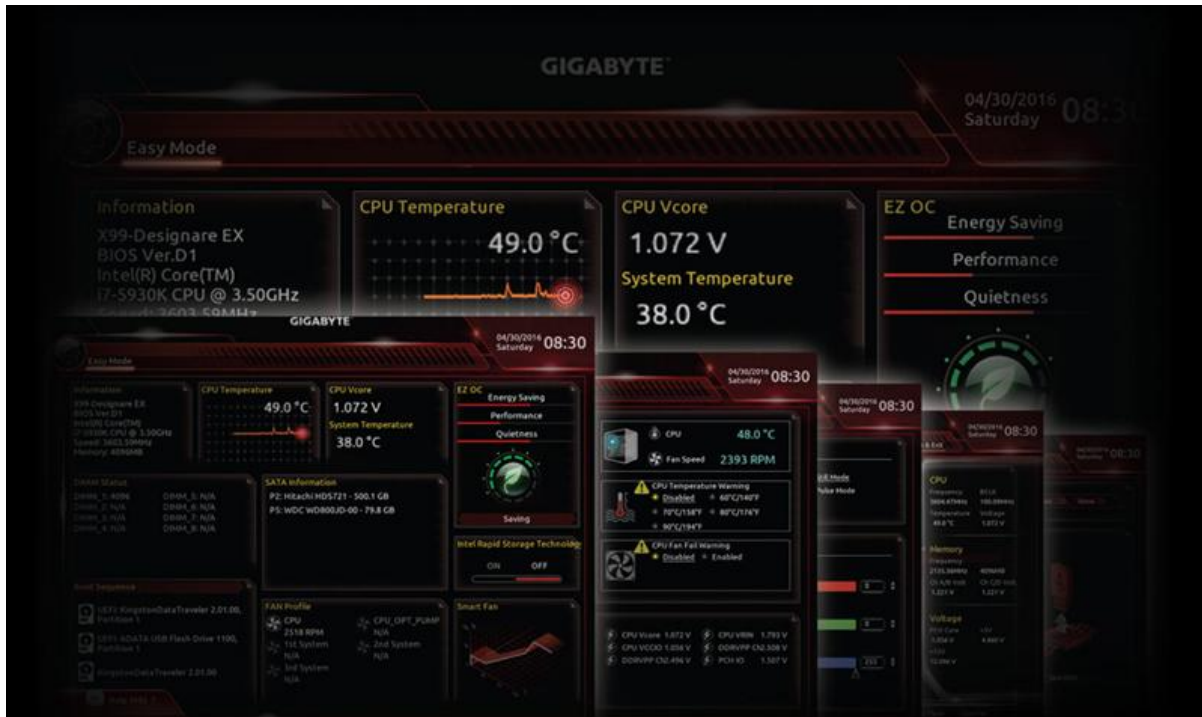


# GIGABYTE BIOS & Applications

Refreshed BIOS

GIGABYTE APP Center

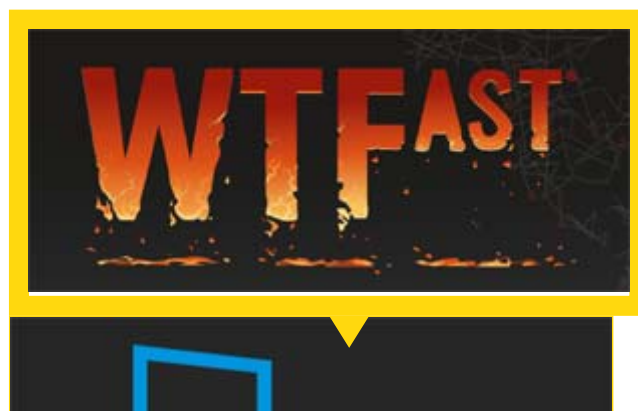
3D OSD



Ref

The BIOS  
optima  
has be  
setting

\* Photos are



ENHANCE YOUR  
ONLINE GAME  
PERFORMANCE WITH

# WTFast

WTFast is a Gamers Private Network (GPN); which optimizes and improves your connection from end to end.

*Take control of your  
gaming experience.*

- Enjoy 3 days FREE seamless connection to any game server in the world
- Experience up to 60% overall connection improvement
- Receive FREE unlimited access to PC Gaming Launchpad, supporting over 800 MMO games
- Monitor your Game Ping and Connection Statistics continuously

**START YOUR FREE TRIAL**

\* Free 3 days WTFast License

\* Trial period subject to change without prior notice according to software vendor's terms and conditions.



## 4K Ultra HD Support



4K resolution is the next technological milestone in high-definition content delivery, utilizing approximately 4,000 pixels on the horizontal axis, more than four times today's standard HD pixel density. GIGABYTE motherboards provide native 4K support with integrated Intel® HD Graphics via HDMI.







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