BIOSTAR
WWW.BIOSTAR.COM.TW

H610MH Motherboard



- Supports 12th Generation Intel Core™ Processor
- Intel H610 single chip architecture
- Supports 2-DIMM DDR4- 1866/ 2133/ 2400/ 2666/ 2933/ 3200 up to 64 GB Memory
- Supports PCIe 4.0
- Supports PCIe M.2 3.0 (32Gb/s)
- Supports HDMI 4K2K
- Supports USB 3.2 Gen1

H610MH Specifcation

CPU SUPPORT	Support for 12th Generation Intel Core™ i9/ i7/ i5/ i3 processors and Intel Pentium processors/ Intel Celeron processors in the LGA1700 package * Please refer to www.biostar.com.tw for CPU support list.
MEMORY	Supports Dual Channel DDR4 1866/ 2133/ 2400/ 2666/ 2933/ 3200 2 x DDR4 DIMM Memory Slot, Max. Supports up to 64 GB Memory Each DIMM supports non-ECC 4/8/16/32GB DDR4 module Support Intel Extreme Memory Profile (XMP) memory modules * Please refer to www.biostar.com.tw for Memory support list.
INTEGRATED VIDEO	Supports DX12 Supports HDCP
STORAGE	-- Total supports 1x M.2 socket and 4 x SATA III (6Gb/s) ports 4 x SATA III Connector (6Gb/s) 1 x M.2 (M Key) Socket (M2_PCIEG3_32G_ SATA): Supports M.2 Type 2240 /2260 /2280 SSD module Supports PCI-E 3.0 x4 (32Gb/s) - NVMe/ AHCI SSD & SATA SSD

BIOSTAR

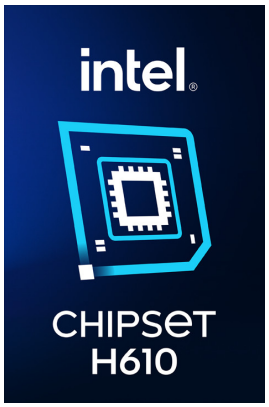
LAN	Intel I219V 10/ 100/ 1000 Mb/s auto negotiation, Half / Full duplex capability
AUDIO CODEC	ALC897 7.1 Channels, High Definition Audio
USB	4 x USB 3.2 (Gen1) ports (2 on rear I/Os and 2 via internal headers) 8 x USB 2.0 ports (4 on rear I/Os and 4 via internal headers)
EXPANSION SLOT	1x PCIe 3.0 x1 Slot 1x PCIe 4.0 x16 Slot
REAR I/O	1 x PS/2 Keyboard/Mouse Port 1 x HDMI 1 x VGA Port 2 x USB 3.2 (Gen1) ports 4 x USB 2.0 ports 1 x LAN port 3 x Audio Jack
INTERNAL I/O	4 x SATA III Connectors (6Gb/s) 2 x USB 2.0 Headers (each header supports 2 USB 2.0 ports) 1 x USB 3.2 (Gen1) Header (each header supports 2 USB 3.2 (Gen1) ports) 1 x 8-Pin Power Connector 1 x 24-Pin Power Connector 1 x CPU Fan Connector 1 x System Fan Connector 1 x Front Panel Header 1 x Front Audio Header 1 x Internal Stereo Speaker Header 1 x Clear CMOS Header 1 x COM Port Header 1 x TPM Header
H/W MONITORING	CPU / System Temperature Monitoring CPU / System Fan Monitoring Smart / Manual CPU Fan Control CPU/DDR Voltage Monitoring
DIMENSION	Micro ATX Form Factor Dimension: 20.8cm x 23.6cm (W x L)
OS SUPPORT	Supports Windows 10 (64bit) / 11(64bit) ※Biostar reserves the right to add or remove support for any OS with or without notice.
BUNDLE SOFTWARE	BullGuard

BIOSTAR

ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x DVD Driver 1 x Quick Guide

H610MH OVERVIEW

CPU-Chipset



Intel H610 chipset

With the Intel® H610 chipset and the 12th generation Intel® Core™ i9/ i7/ i5/ i3 processors and Intel® Pentium® processors, you will immediately be at the forefront of the battlefield, fueled by mind-blowing power and performance. From content creation to gaming, the Intel H610 chipset provides you with the power and performance you need.

Audio+



HD Audio

Provides high quality sound with minimal loss of audio fidelity.

Video+



HDMI 4K2K

The new 4K2K resolution enables high-definition image display with four times the resolution of full HD, 4K2K display is faithfully express bright, highly detailed content that fills the entire screen with lifelike images. Connectivity with PCs via a single HDMI cable for displaying 4K2K data.

BIOSTAR



DX12

DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.



Integrated HDMI with HDCP

Onboard HDMI connector allows full video & audio support. It has industry-leading high definition video quality.

Speed+



Intel GbE LAN

Unlike ordinary LAN solution, Intel® GbE LAN offers fewer CPU resource consumption and more bandwidth stability. Thus, Intel® LAN is the best choice for performance seekers.



PCIe M.2

PCIe M.2 32Gb/s is the latest storage interface, it delivers the highest bandwidth and lower latency. It's 3 times faster compared with PCIe M.2 10Gb/s.



PCIe Gen 3.0

PCIe 3.0 is the next evolution of the ubiquitous and general-purpose PCI Express I/O standard. At 8GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 2.0, while preserving compatibility with software and mechanical interfaces.



SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.

BIOSTAR



Dual DDR4

The primary advantages of DDR4 over DDR3, include higher module density, lower voltage requirements, coupled with higher data transfer rate.



PCIe 4.0

PCIe 4.0 is the next evolution of the ubiquitous and general-purpose PCI Express I/O standard. At 16GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 3.0, while preserving compatibility with software and mechanical interfaces.



USB 3.2 Gen1 Type-A

USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.



S-Hyper PWM

The S-Hyper PWM has DCR current sensing architecture and lossless characteristic, offering excellent precision in delivering stable power with 100% fixed voltage to ensure that critical components of the motherboard are under protected with the maximum performance and reliability.

Durable+



Super Durable Solid Caps

The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.

Protection+

BIOSTAR

BullGuard Internet Security (90 days FREE trial)

BullGuard Internet Security comes with the broadest line-up of internet security features on the market, including: a cutting-edge dual Antivirus engine, Online Backup for your precious files, PC Tune Up to speed up your system, a Game Mode for a seamless gaming experience, Parental Control, Firewall, Safe Browsing and many more. Make the most of your digital life with Bullguard!

DIY+



UEFI BIOS

Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons leads users into the setup layer directly.



BIO-Flasher

BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.



A.I FAN

With A.I FAN users can ensure that their gaming PC can maintain its performance while staying cool. According to different cooling needs and usage scenarios, users can control speed modes. Allows users to have more customizability of fan modes and automatically detects different temperatures to make fan operate at defined speed for optimal cooling performance. Furthermore, A.I FAN support both PWM and DC voltage fans for more cooling options.

BIOSTAR



Debug LED

Debug LED helps you identify any issues going with your board or hardware. When error occurs, the corresponding LED lights will inform you on the status of your board or hardware to shorten the test time effectively.



Smart Update

Biostar Smart Update is a utility that can help users run online update. It can download the drivers for your motherboard from Biostar official website and install them automatically.

*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!

BIOSTAR