

## GIGABYTE H610M S2H DDR5 mATX Motherboard



PRODUCT ID: 02668

### Basic

#### Information

Supported CPU	Support for 12th/ 13th/ 14th Generation Intel Core i9/ i7/ i5/ i3 processors and Intel Pentium processors/ Intel Celeron processors in the LGA1700 package L3 cache varies with CPU
Chipset	Intel H610 Express Chipset
BIOS	1 x 128 Mbit flash Use of licensed AMI UEFI BIOS PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Form Factor	Micro ATX Form Factor; 23.0cm x 21.5cm
Audio	Realtek Audio CODEC High Definition Audio 2/4/5.1/7.1-channel * You can change the functionality of an audio jack using the audio software. To configure 7.1-channel audio, access the audio software for audio settings.

#### Expansion Slots

PCI	1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16 Chipset: 1 x PCI Express x1 slot, supporting PCIe 3.0 and running at x1
-----	--

#### Memory

Type	DDR5
Slots	2 x DDR DIMM sockets

## Basic Information

Supported Memory	13th Generation Intel Core i9/i7 processors: Support for DDR5 5600/5200/4800/4400 MT/s memory modules 13th Generation Intel Core i5/i3 and 12th Generation Intel Core, Pentium Gold and Celeron Processors: Support for DDR5 4800/4400 MT/s memory modules 2 x DDR DIMM sockets supporting up to 64 GB (32 GB single DIMM capacity) of system memory Dual channel memory architecture Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules support for Extreme Memory Profile (XMP) memory modules
Maximum Memory	up to 64 GB (32 GB single DIMM capacity) of system memory

## Graphics

Graphics	Integrated Graphics Processor-Intel HD Graphics support: 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz * The DVI-D port does not support D-Sub connection by adapter. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz * Support for HDMI 2.1 version and HDCP 2.3. ** Support native HDMI 2.1 TMDS compatible ports. 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz * Support for DisplayPort 1.2 version and HDCP 2.3
----------	---

## Connector & Ports

HDMI	1 x HDMI port
D-Sub (s)	1 x D-Sub port
DVI-D (s)	1 x DVI-D port
USB (s)	Chipset: 4 x USB 3.2 Gen 1 ports (2 ports on the back panel, 2 ports available through the internal USB header) 4 x USB 2.0/1.1 ports on the back panel Chipset+USB 2.0 Hub: 4 x USB 2.0/1.1 ports available through the internal USB headers
LAN Port (s)	Realtek GbE LAN chip (1 Gbps/100 Mbps)
Supported Storage	Chipset: 1 x M.2 connector (Socket 3, M key, type 2280/2260 PCIe 3.0 x4/x2 SSD support) 4 x SATA 6Gb/s connectors
Audio	3 x audio jacks

## Basic Information

### Internal I/O Ports

### Internal I/O Connectors

- 1 x 24-pin ATX main power connector
- 1 x 8-pin ATX 12V power connector
- 1 x CPU fan header
- 2 x system fan headers
- 1 x M.2 Socket 3 connector
- 4 x SATA 6Gb/s connectors
- 1 x RGB LED strip header
- 1 x front panel header
- 1 x front panel audio header
- 1 x USB 3.2 Gen 1 header
- 2 x USB 2.0/1.1 headers
- 1 x serial port header
- 1 x Clear CMOS jumper

### Back Panel Connectors

- 1 x PS/2 keyboard port
- 1 x PS/2 mouse port
- 1 x D-Sub port
- 1 x DVI-D port
- 1 x DisplayPort
- 1 x HDMI port
- 2 x USB 3.2 Gen 1 ports
- 4 x USB 2.0/1.1 ports
- 1 x RJ-45 port
- 3 x audio jacks

### TPM (Trusted Platform Module)

- 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only)

## Others

### Special Features

### Support for APP Center

\* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.

- @BIOS
- EasyTune
- Fast Boot
- Game Boost
- ON/OFF Charge
- RGB Fusion
- Smart Backup
- System Information Viewer
- Support for Q-Flash Plus
- Support for Q-Flash
- Support for Xpress Install

## Basic Information

Bundled Software	Norton Internet Security (OEM version) cFosSpeed
------------------	---

## Warranty Information

Manufacturing Warranty	3 years
------------------------	---------