

The background features a light gray geometric design. At the top, there are several horizontal lines on the left and a jagged, step-like line across the top. A small cluster of diagonal lines is positioned to the right of the word 'STANDARD'. The bottom right corner is filled with a series of parallel diagonal lines.

STANDARD

H810MT-E 2.0 Sales Kit

2026-Jan

Model Name	H810MT-E 2.0
Chipset	Intel® H810
CPU Socket	Intel® LGA 1851
CPU Support	Intel® Core™ Ultra Processors (Series 2)
Form Factor	u-ATX / 218 x 240mm
VRM	5+2+1 Phase
Memory	2 x DIMM DDR5 Slots up to 6400, Max up to 128GB
Slot	1 x PCI-E 5.0 x16 slot (x16 mode) 1 x PCI-E 3.0 x1 slot (x1 mode) 1 x M.2 (E Key) Support type 2230 Wi-Fi / BT module
Storage	4 x SATA III, 1 x M.2 sockets (M Key) 1 x M.2 (M Key) Support PCI-E 4.0 Mode
Graphics	1 x Display (1.2) / 1 x HDMI™ (2.1)
USB (F/R)	USB3.2 Gen1 : 3(2A+1C) + 2 USB2.0 : 2 + 4
Audio	Realtek ALC897, 3 Ports, 7.1CH , HD Audio
LAN	Realtek RTL8111H GbE LAN
TPM Header	1 x TPM pin header (Support TPM 2.0)
FAN Header	1 x CPU FAN Header 2 x SYS FAN Headers



BIostar**Features on H810MT-E 2.0**

USB 3.2 Gen1 Type-A + C
Delivers superior efficiency
and performance.



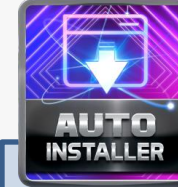
PCIe 4.0 M.2
The storage interface, delivers the
highest bandwidth.



PCIe 5.0 & Iron Slot Protection
Data transfer rate from 64Gb/s
PCIe 4.0 to 128Gb/s PCIe 5.0.



DDR5 up to 6400
Support dual channels
and DDR5 6400 – 4800 MT/s



User Friendly Functions
The easiest way to update and
install the driver.



Debug LED
The LED helps you identify any
Issues going.

Snapshot on H810MT-E 2.0

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8 Phase VRM Design

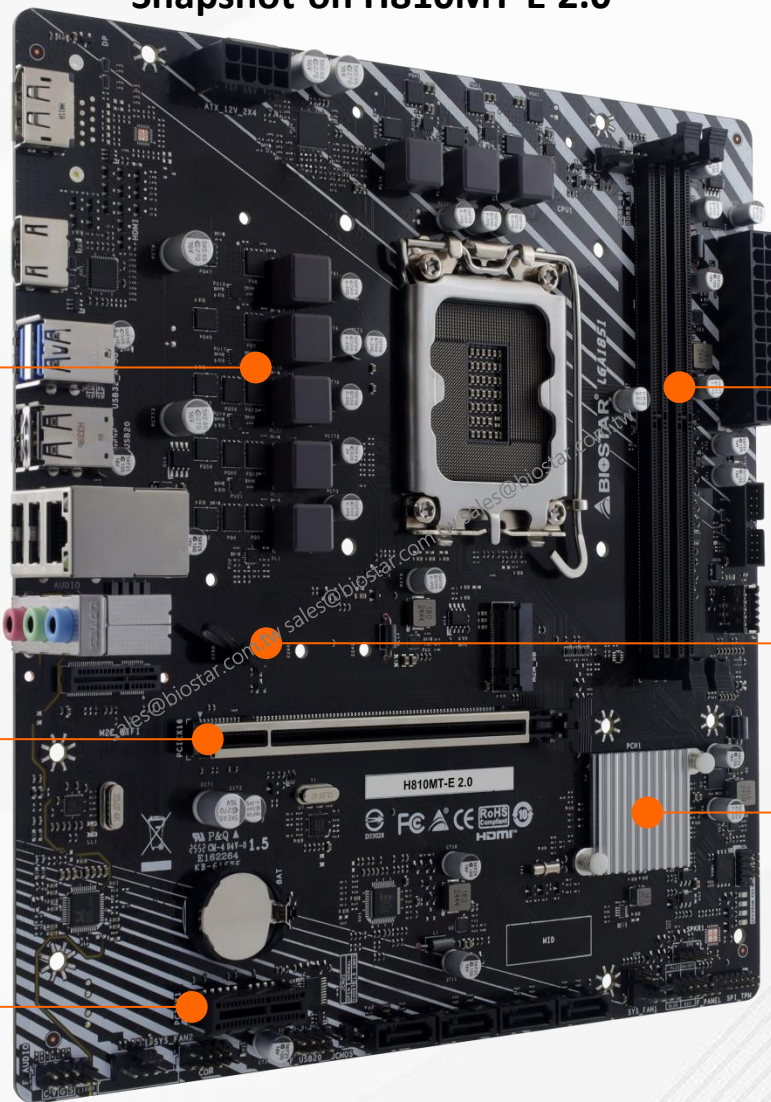
2 x DDR5 DIMMs

PCIe 4.0 M.2 socket

PCIe 5.0 x16 slot

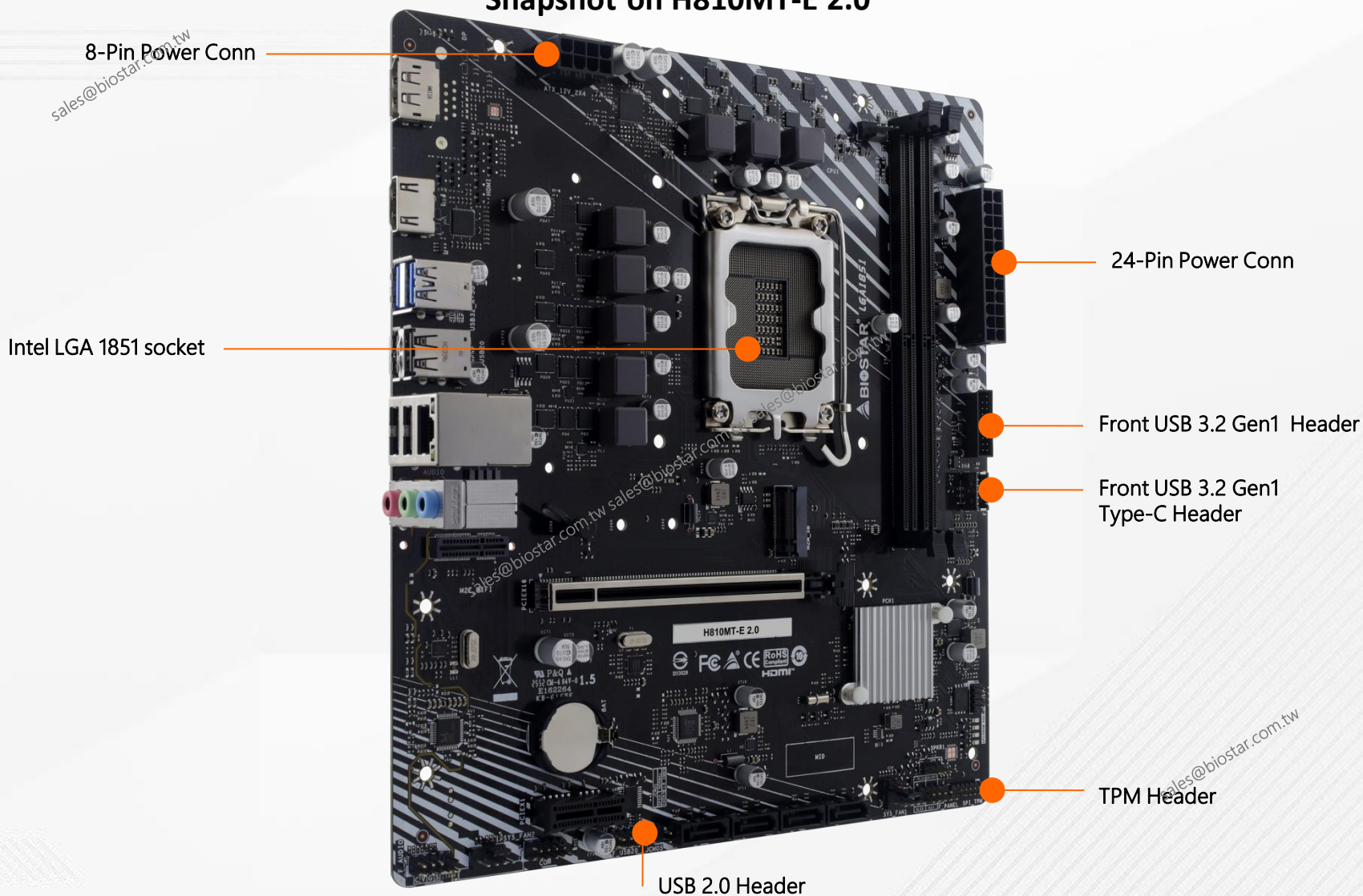
Intel H810 Chipset

PCIe 3.0 x1 slot



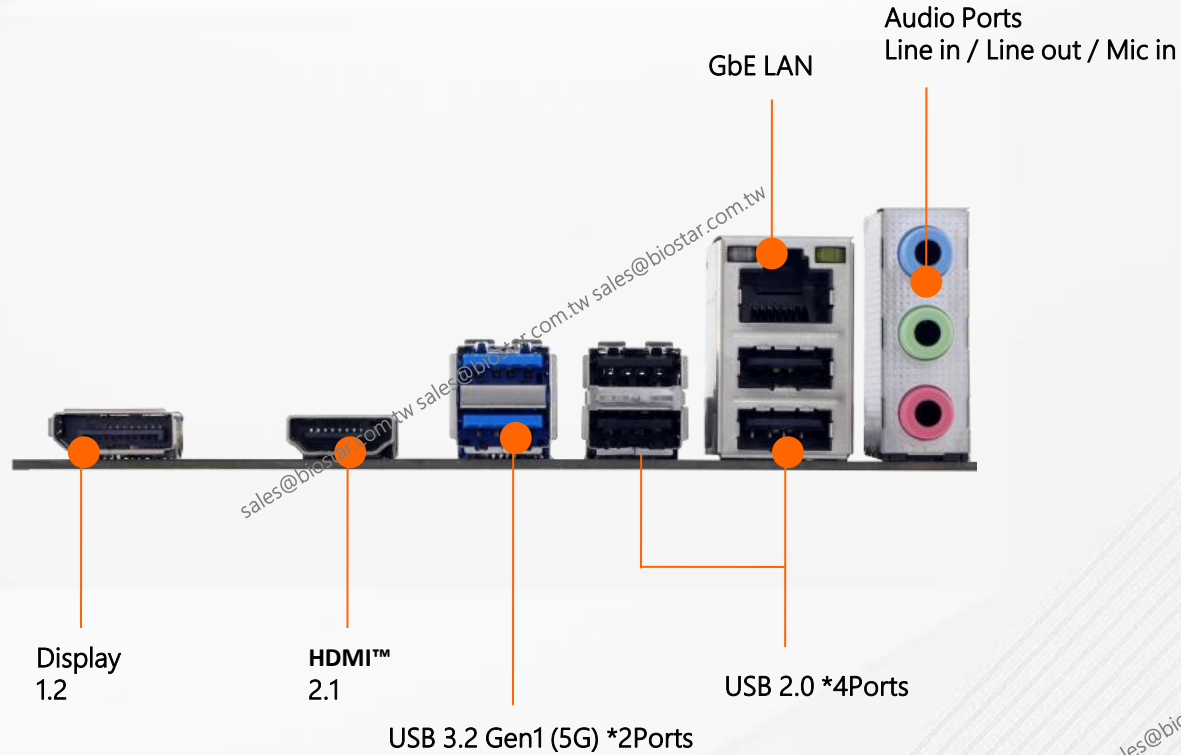
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Snapshot on H810MT-E 2.0



Snapshot on H810MT-E 2.0

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DDR5



- Compared with DDR4, the bandwidth is increased up to 50%
- Capacity on a single module whopping **64GBs**



AIDA64 Cache & Memory Benchmark

	Read	Write	Copy	Latency
Memory	98026 MB/s	87372 MB/s	90600 MB/s	87.0 ns
L0 Cache	4778.0 GB/s	3505.9 GB/s	6349.5 GB/s	0.7 ns
L1 Cache	1238.3 GB/s	604.42 GB/s	1034.1 GB/s	1.6 ns
L2 Cache	698.80 GB/s	544.48 GB/s	583.07 GB/s	4.0 ns
L3 Cache	731.23 GB/s	629.59 GB/s	858.93 GB/s	19.6 ns

CPU Type	8C+16c Intel Core Ultra 9 285K (Arrow Lake-S, LGA1851)		
CPU Stepping	B0		
CPU Clock	5287.7 MHz		
CPU FSB	99.8 MHz (original: 100 MHz)		
CPU Multiplier	53x	North Bridge Clock	1297.0 MHz

Memory Bus	3192.5 MHz	DRAM:FSB Ratio	32:1
Memory Type	Dual Channel DDR5-6400 SDRAM (32-39-39-102 CR2)		
Chipset	Intel Arrow Point H810, Intel Arrow Lake-S		
Motherboard	BIOSTAR Group H810MT-E 2.0		
BIOS Version	5.32		

Hypervisor

AIDA64 v8.20.8100 / BenchDLL 4.7.924.8-x64 © 1995-2025 FinalWire Ltd.

Save

Start Benchmark

Close



Segment

Value

Users

- Home Users
- Social

Use Cases

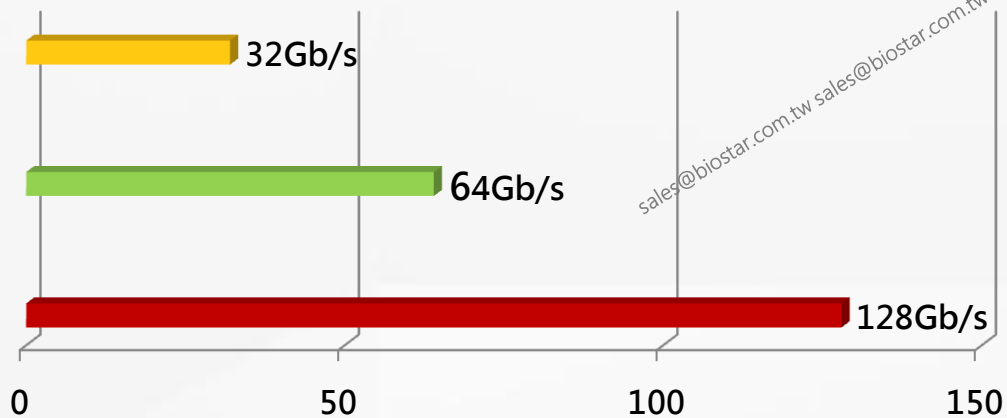
- Email
- Social Media
- Communication

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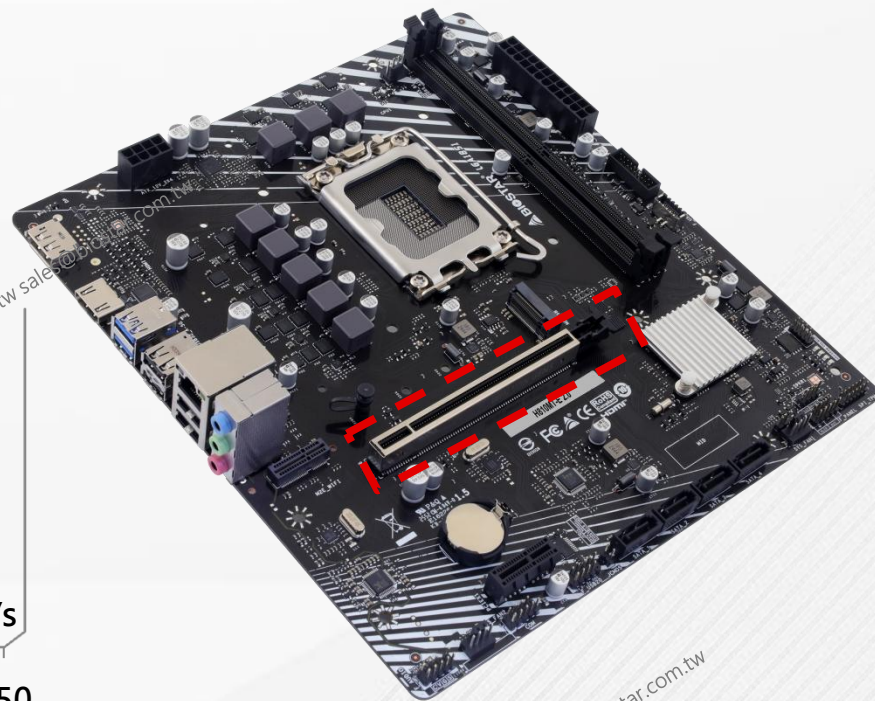


◆ **Maintains** backward compatibility

◆ Its **2** times bandwidth than PCIe 4.0



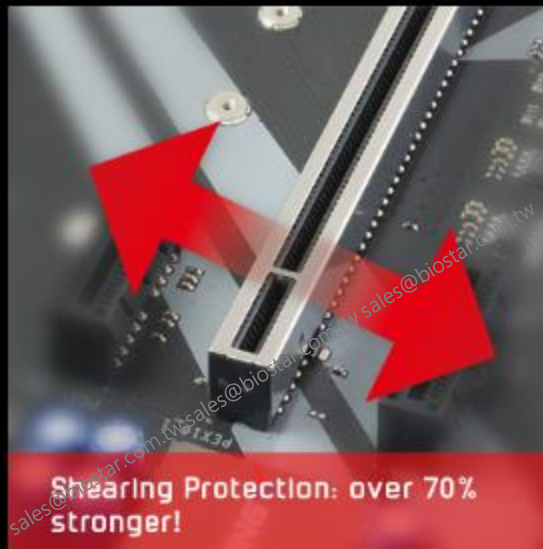
■ PCIe 3.0 ■ PCIe 4.0 ■ PCIe 5.0



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Iron Slot Protection

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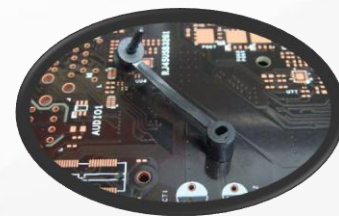


- ◆ Iron slot protection can handle heavier graphics cards, prevent bending and extend longevity of the slot.

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PCIe 4.0 M.2

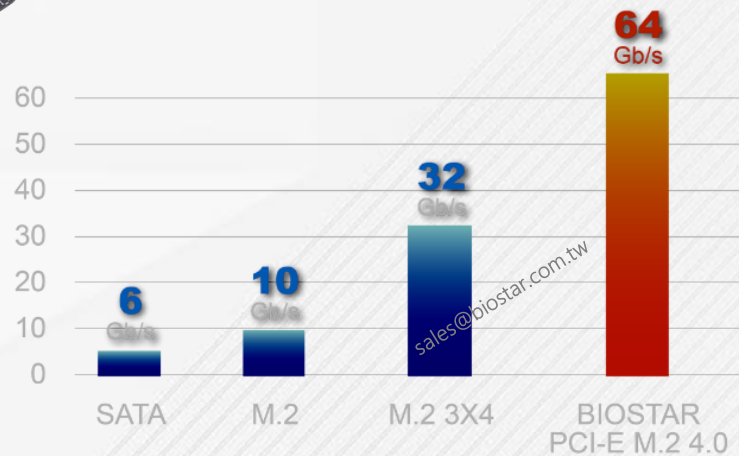
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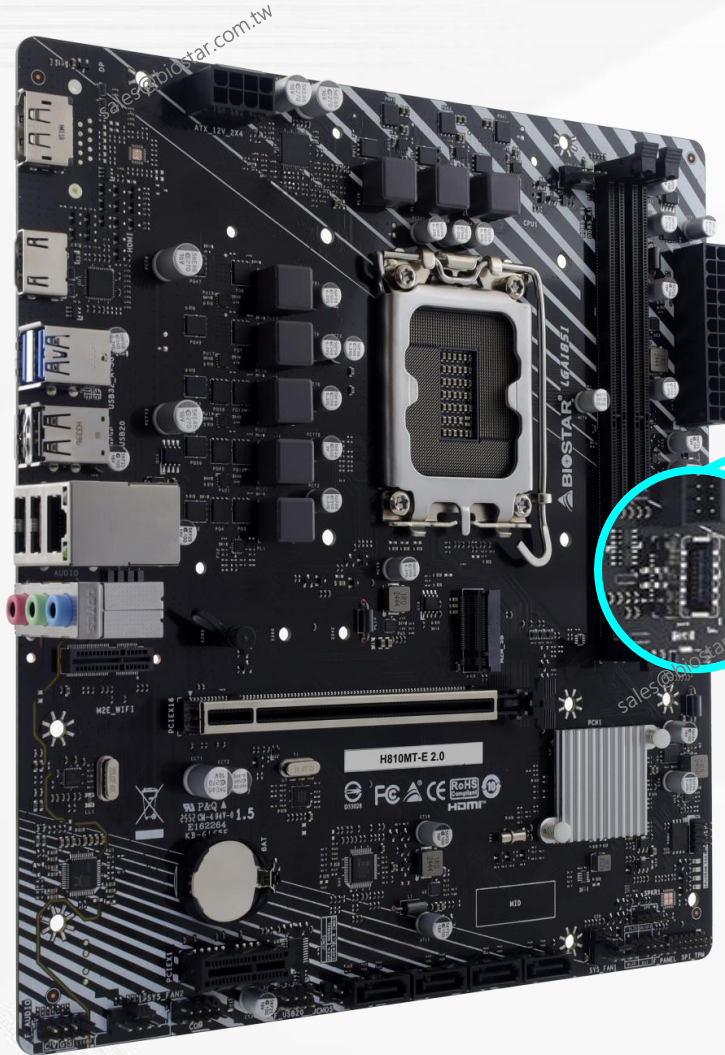
◆ Delivers lower latency

◆ Delivers the bandwidth 64Gb/s

◆ It is 2 times faster than PCIe M.2 3.0



Front 3.2 Gen1 Type-C (5G) Header



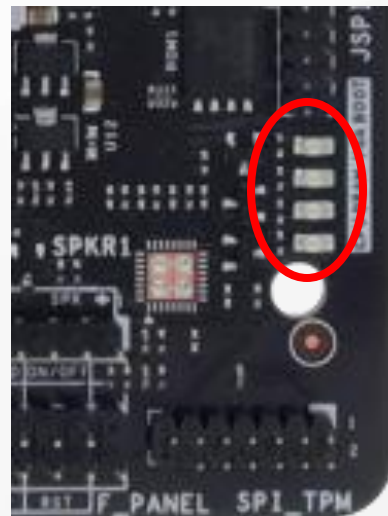
◆ Designed to be compliant with the USB Type-C specification is capable of **5V at 3A**.

Power (W) = Voltage (V) x Current(A)
→ 5 V x 3A = 15W

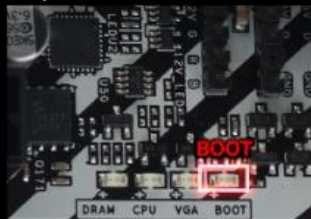
Debug LED



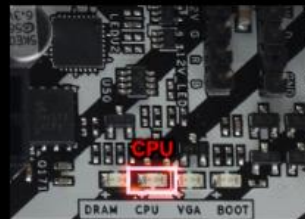
- This LEDs indicate the **status** of the motherboard.
- After starting computer, the LED indicators will AURORA up in the following order:
CPU → DRAM → VGA → BOOT
- When the computer is ready, the LED indicators will show where the **error occurred** and stay on until the problem is solved.



When VGA is lost,
the VGA LED will light in red on
the motherboard.



When the booting device is
not detected, the BOOT LED
will light in red on the motherboard.



When CPU is not detected,
the CPU LED will light in red on
the motherboard.



When RAM is lost,
the DRAM LED will light in red on
the motherboard.

BIOS**NEW** UEFI BIOS

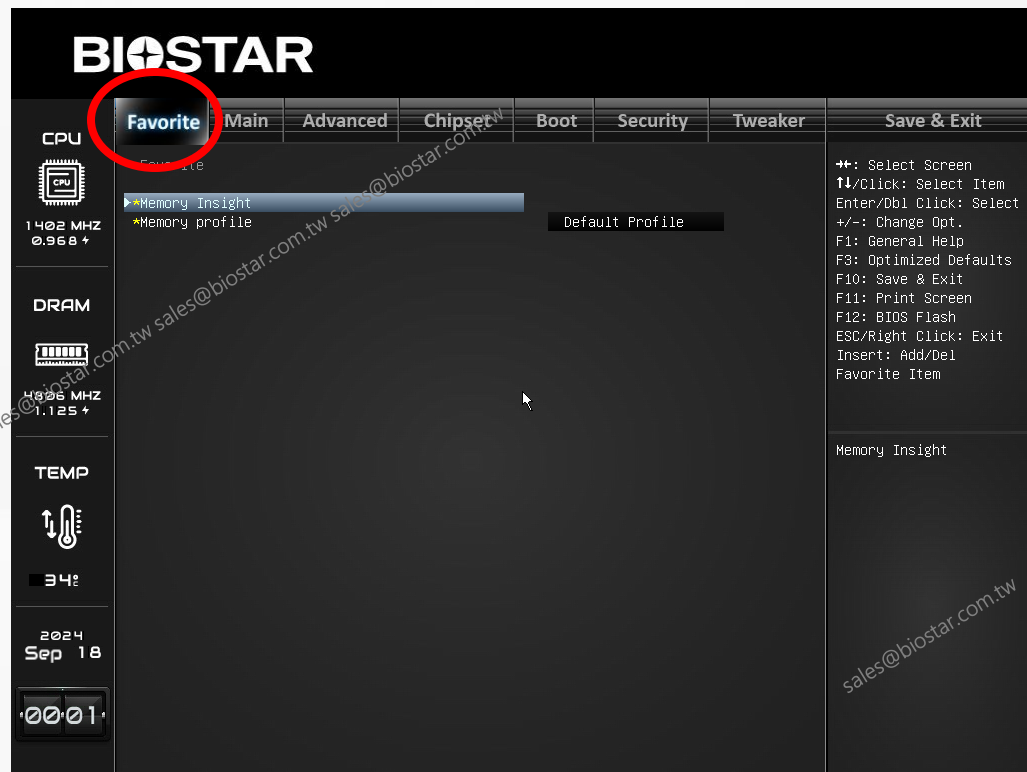
◆ In the Advanced mode, the Favorite tab is simple and easy-to-use. Users can add/remove options from the preset options.

◆ In this menu you can easily save and use your preferred BIOS project settings.



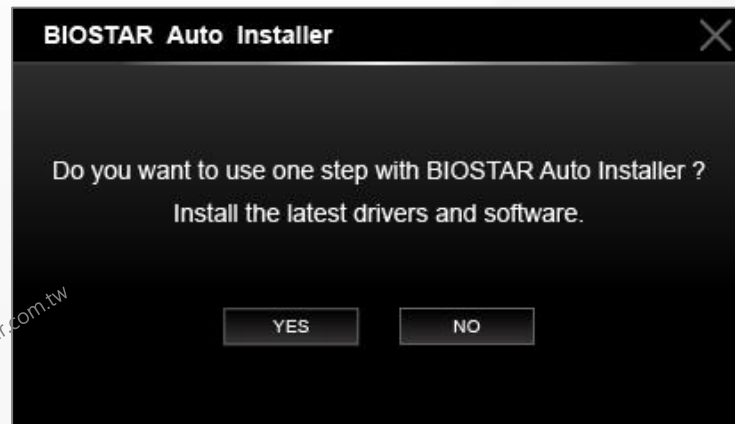
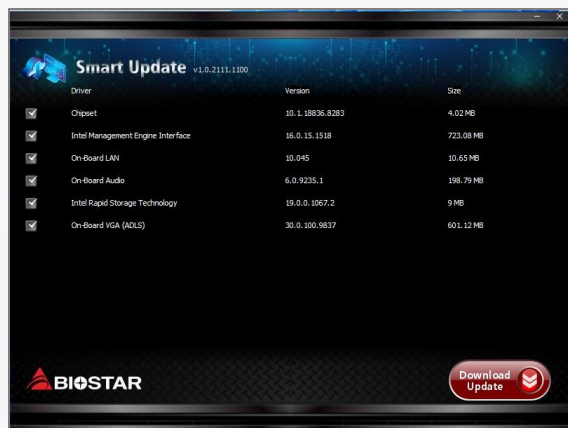
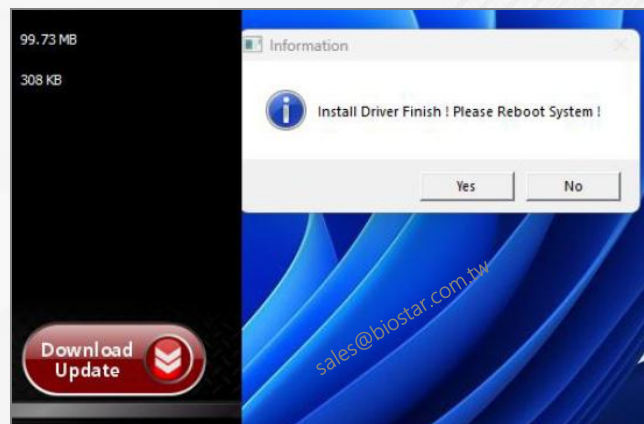
Use <Insert> button

Add or remove a favorite option



BIOSTAR**NEW** Auto Installer

◆ Auto Installer is capable of automatically installing the required drivers on Windows OS, providing users with a more intuitive and convenient experience, eliminating the hassle of manually searching for drivers.



BOX Info

NEW



STANDARD
Box Design
(535x280x515mm)
*20 Boxes in Carton

NEW



BIOSSTAR Official Website

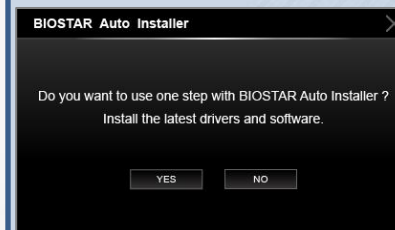


QR Code Manual



I/O Bracket Shield

NEW



Auto Installer
Driver



BIOSSTAR
H810MT-E 2.0



SATA Cable *1pcs

BIOSTAR
BRING SOLUTION INTO REALITY