

ROG STRIX Z790-H GAMING WIFI

MB ASUS Z790 INTEL S-1700 13A GEN/4X DDR5 5000/DP/HDMI/M.2/8X USB
3.2/USB-C/WIFI 6E/BLUETOOTH/ATX/GAMA ALTA/GAMER/RGB



Informacion Tecnica:

CPU

INTEL SOCKET LGA1700 FOR 13TH GEN INTEL CORE & 12TH GEN INTEL CORE,
PENTIUM GOLD AND CELERON® PROCESSORS*

SUPPORTS INTEL TURBO BOOST TECHNOLOGY 2.0 AND INTEL TURBO BOOST MAX
TECHNOLOGY 3.0**

* REFER TO WWW.ASUS.COM FOR CPU SUPPORT LIST.

** INTEL TURBO BOOST MAX TECHNOLOGY 3.0 SUPPORT DEPENDS ON THE CPU
TYPES.

CHIPSET

INTEL Z790 CHIPSET

MEMORY

4 X DIMM, MAX. 128GB, DDR5

7800+(OC)/7600(OC)/7400(OC)/7200(OC)/7000(OC)/6800(OC)/6600(OC)/6400(OC)/
6200(OC)/6000(OC)/5800(OC)/5600/5400/5200/5000/4800

NON-ECC, UN-BUFFERED MEMORY*

DUAL CHANNEL MEMORY ARCHITECTURE

SUPPORTS INTEL® EXTREME MEMORY PROFILE (XMP)

OPTIMEM II

* SUPPORTED MEMORY TYPES, DATA RATE (SPEED), AND NUMBER OF DRAM
MODULES VARY DEPENDING ON THE CPU AND MEMORY CONFIGURATION, FOR
MORE INFORMATION PLEASE REFER TO CPU/MEMORY SUPPORT LIST UNDER THE
SUPPORT TAB OF PRODUCT INFORMATION SITE OR VISIT

[HTTPS://WWW.ASUS.COM/SUPPORT/](https://www.asus.com/support/)

** NON-ECC, UN-BUFFERED DDR5 MEMORY SUPPORTS ON-DIE ECC FUNCTION.

GRAPHICS

1 X DISPLAYPORT**

1 X HDMI PORT***

* GRAPHICS SPECIFICATIONS MAY VARY BETWEEN CPU TYPES. PLEASE REFER TO WW.INTEL.COM FOR ANY UPDATES.

** SUPPORTS MAX. 8K@60HZ AS SPECIFIED IN DISPLAYPORT 1.4.

*** SUPPORTS 4K@60HZ AS SPECIFIED IN HDMI 2.1.

**** VGA RESOLUTION SUPPORT DEPENDS ON PROCESSORS OR GRAPHIC CARDS RESOLUTION.

EXPANSION SLOTS

INTEL 13TH & 12TH GEN PROCESSORS

1 X PCIE 5.0 X16 SLOT

INTEL Z790 CHIPSET

1 X PCIE 4.0 X16 SLOT (SUPPORTS X4 OR X4/X4 MODE)

1 X PCIE 3.0 X1 SLOT

* PLEASE CHECK THE PCIE BIFURCATION TABLE

ON THE SUPPORT SITE ([HTTPS://WWW.ASUS.COM/SUPPORT/FAQ/1037507/](https://www.asus.com/support/faq/1037507/)).

** TO ENSURE COMPATIBILITY OF THE DEVICE INSTALLED, PLEASE REFER TO [HTTPS://WWW.ASUS.COM/SUPPORT/](https://www.asus.com/support/) FOR THE LIST OF SUPPORTED PERIPHERALS.

STORAGE

TOTAL SUPPORTS 4 X M.2 SLOTS AND 4 X SATA 6GB/S PORTS*

INTEL 13TH & 12TH GEN PROCESSORS

M.2_1 SLOT (KEY M), TYPE 2242/2260/2280/22110 (SUPPORTS PCIE 4.0 X4 MODE)

INTEL Z790 CHIPSET

M.2_2 SLOT (KEY M), TYPE 2242/2260/2280 (SUPPORTS PCIE 4.0 X4 MODE)

M.2_3 SLOT (KEY M), TYPE 2242/2260/2280/22110 (SUPPORTS PCIE 4.0 X4 MODE)

M.2_4 SLOT (KEY M), TYPE 2242/2260/2280 (SUPPORTS PCIE 4.0 X4 & SATA MODES)

4 X SATA 6GB/S PORTS

* INTEL RAPID STORAGE TECHNOLOGY SUPPORTS PCIE RAID 0/1/5/10, SATA RAID 0/1/5/10.

ETHERNET

1 X INTEL 2.5GB ETHERNET

ASUS LANGUARD

WIRELESS & BLUETOOTH

WI-FI 6E

2X2 WI-FI 6E (802.11 A/B/G/N/AC/AX)

SUPPORTS 2.4/5/6GHZ FREQUENCY BAND*

BLUETOOTH V5.3

* WIFI 6E 6GHZ REGULATORY MAY VARY BETWEEN COUNTRIES.

** THE BLUETOOTH VERSION MAY VARY, PLEASE REFER TO THE WI-FI MODULE

MANUFACTURERS WEBSITE FOR THE LATEST SPECIFICATIONS.

USB

REAR USB (TOTAL 10 PORTS)

- 1 X USB 3.2 GEN 2X2 PORT (1 X USB TYPE-C)
- 3 X USB 3.2 GEN 2 PORTS (2 X TYPE-A + 1 X USB TYPE-C)
- 4 X USB 3.2 GEN 1 PORTS (4 X TYPE-A)
- 2 X USB 2.0 PORTS (2 X TYPE-A)

FRONT USB (TOTAL 7 PORTS)

- 1 X USB 3.2 GEN 2X2 CONNECTOR (SUPPORTS USB TYPE-C)
- 1 X USB 3.2 GEN 1 HEADER SUPPORTS 2 ADDITIONAL USB 3.2 GEN 1 PORTS
- 2 X USB 2.0 HEADERS SUPPORT 4 ADDITIONAL USB 2.0 PORTS

AUDIO

ROG SUPREMEFX 7.1 SURROUND SOUND HIGH DEFINITION AUDIO CODEC S1220A

- IMPEDANCE SENSE FOR FRONT AND REAR HEADPHONE OUTPUTS
- SUPPORTS: JACK-DETECTION, MULTI-STREAMING, FRONT PANEL JACK-RETASKING
- HIGH QUALITY 120 DB SNR STEREO PLAYBACK OUTPUT AND 113 DB SNR

RECORDING INPUT

- SUPPORTS UP TO 32-BIT/192 KHZ PLAYBACK*

AUDIO FEATURES

- SUPREMEFX SHIELDING TECHNOLOGY
- SAVITECH SV3H712 AMP
- REAR OPTICAL S/PDIF OUT PORT
- PREMIUM AUDIO CAPACITORS
- AUDIO COVER

*DUE TO LIMITATIONS IN HDA BANDWIDTH, 32-BIT/192 KHZ IS NOT SUPPORTED FOR 7.1 SURROUND SOUND AUDIO.

BACK PANEL I/O PORTS

- 1 X USB 3.2 GEN 2X2 PORT (1 X USB TYPE-C)
- 3 X USB 3.2 GEN 2 PORTS (2 X TYPE-A + 1 X USB TYPE-C)
- 4 X USB 3.2 GEN 1 PORTS (4 X TYPE-A)
- 2 X USB 2.0 PORTS (2 X TYPE-A)
- 1 X DISPLAYPORT
- 1 X HDMI PORT
- 1 X WI-FI MODULE
- 1 X INTEL 2.5GB ETHERNET PORT
- 5 X GOLD-PLATED AUDIO JACKS
- 1 X OPTICAL S/PDIF OUT PORT
- 1 X BIOS FLASHBACK BUTTON
- 1 X CLEAR CMOS BUTTON

INTERNAL I/O CONNECTORS

FAN AND COOLING RELATED

- 1 X 4-PIN CPU FAN HEADER
- 1 X 4-PIN CPU OPT FAN HEADER
- 1 X 4-PIN AIO PUMP HEADER
- 5 X 4-PIN CHASSIS FAN HEADERS

POWER RELATED

- 1 X 24-PIN MAIN POWER CONNECTOR
- 2 X 8-PIN +12V POWER CONNECTORS

STORAGE RELATED

- 4 X M.2 SLOTS (KEY M)
- 4 X SATA 6GB/S PORTS

USB

- 1 X USB 3.2 GEN 2X2 CONNECTOR (SUPPORTS USB TYPE-C)
- 1 X USB 3.2 GEN 1 HEADER SUPPORTS 2 ADDITIONAL USB 3.2 GEN 1 PORTS
- 2 X USB 2.0 HEADERS SUPPORT 4 ADDITIONAL USB 2.0 PORTS

MISCELLANEOUS

- 3 X ADDRESSABLE GEN 2 HEADERS
- 1 X AURA RGB HEADER
- 1 X CPU OVER VOLTAGE JUMPER
- 1 X FRONT PANEL AUDIO HEADER (AAFP)
- 1 X 20-3 PIN SYSTEM PANEL HEADER WITH CHASSIS INTRUDE FUNCTION
- 1 X THERMAL SENSOR HEADER
- 1 X THUNDERBOLT HEADER

SPECIAL FEATURES

- EXTREME ENGINE DIGI+
- 5K BLACK METALLIC CAPACITORS

ASUS Q-DESIGN

- M.2 Q-LATCH
- PCIE SLOT Q-RELEASE
- Q-DIMM
- Q-LED (CPU [RED], DRAM [YELLOW], VGA [WHITE], BOOT DEVICE [YELLOW GREEN])
- Q-SLOT

ASUS THERMAL SOLUTION

- M.2 HEATSINK BACKPLATE
- M.2 HEATSINK
- VRM HEATSINK DESIGN

ASUS EZ DIY

- BIOS FLASHBACK BUTTON
- BIOS FLASHBACK LED
- CLEAR CMOS BUTTON
- CPU SOCKET LEVER PROTECTOR
- PROCOOL II
- PRE-MOUNTED I/O SHIELD
- SAFESLOT
- SAFEDIMM

AURA SYNC

- AURA RGB HEADER
- ADDRESSABLE GEN 2 HEADERS

SOFTWARE FEATURES

ROG EXCLUSIVE SOFTWARE

- GAMEFIRST VI
- ROG CPU-Z
- SONIC STUDIO III + SONIC STUDIO VIRTUAL MIXER + SONIC SUITE COMPANION
- SONIC RADAR III
- DTS SOUND UNBOUND

ASUS EXCLUSIVE SOFTWARE

ARMOURY CRATE

- AIDA64 EXTREME (60 DAYS FREE TRIAL)
- AURA CREATOR- AURA SYNC
- FAN XPERT 4 (WITH AI COOLING II)
- POWER SAVING
- TWO-WAY AI NOISE CANCELLATION

AI SUITE 3

- EASY OPTIMIZATION WITH AI OVERCLOCKING
- TPU
- DIGI+ VRM
- TURBO APP
- PC CLEANER
- SYSTEM INFORMATION

MYASUS

NORTON 360 FOR GAMERS

WINRAR

UEFI BIOS

AI OVERCLOCKING GUIDE

ASUS EZ DIY

- ASUS CRASHFREE BIOS 3
- ASUS EZ FLASH 3

- ASUS UEFI BIOS EZ MODE
FLEXKEY
MEMTEST86

BIOS
256 MB FLASH ROM, UEFI AMI BIOS
MANAGEABILITY
WOL BY PME, PXE

ACCESSORIES
CABLES
2 X SATA 6GB/S CABLES
ADDITIONAL COOLING KIT
1 X THERMAL PAD FOR M.2

MISCELLANEOUS
1 X ASUS WI-FI MOVING ANTENNAS
1 X CABLE TIES PACKAGE
1 X M.2 BACKPLATE Q-LATCH PACKAGE
1 X M.2 Q-LATCH PACKAGE
1 X ROG KEY CHAIN
1 X ROG STRIX STICKERS
1 X ROG STRIX THANK YOU CARD
2 X M.2 RUBBER PACKAGES
1 X M.2 BACKPLATE RUBBER
PACKAGE

DOCUMENTATION
1 X USER GUIDE
OPERATING SYSTEM
WINDOWS 11, WINDOWS 10 64-BIT

FORM FACTOR
ATX FORM FACTOR
12 INCH X 9.6 INCH (30.5 CM X 24.4 CM)

Informacion Comercial:

GOLPEA SIGILOSAMENTE CON EL PODEROSO Y POTENTE ROG STRIX Z790-H. LOS DISIPADORES DE CALOR GRUESOS Y NEGROS MANTIENEN LAS TEMPERATURAS VRM EN SECRETO, LO QUE PERMITE QUE LOS PROCESADORES INTEL® DE 13 GENERACIÓN TENGAN ESPACIO PARA AUMENTOS MÁS ALTOS. CUATRO RANURAS M.2 ESTÁN EQUIPADAS DE MANERA SIMILAR, Y LA RANURA SUPERIOR VIENE CON UN FREGADERO COMBINADO PARA COLARSE EN UN ENFRIAMIENTO ADICIONAL. LA

COMPATIBILIDAD CON PCIE 5.0 ESTÁ A LA ESPERA DE LAS TARJETAS GRÁFICAS DE PRÓXIMA GENERACIÓN Y LA CONECTIVIDAD WIFI 6E Y USB 3.2 GEN 2X2 DE ÚLTIMA GENERACIÓN.