H310M-VDHP PLUS

(MS-7C01v1.0)
m-ATX Motherboard

Motherboard Components Overview

CPU_PWR1
CPU Socket
CPU_FAN1
SYS_FAN2
ATX_PWR1
SYS_FAN1
BAT1
JUSB3
M2_1
PCI_E1
PCI1
JSPI1
SATA3_4
PCI2
SATA1
PCI_E2
SATA2
JBAT1
JAUD1
JCI1
JSPDIF1
JFP2
JUSB2
JTPM1
JFP1
JUSB1
JCOM1
JLPT1

Rear I/O Panel

Mouse Port
VGA Port
COM Port
USB 2.0
LAN Port
Line-In
Line-Out
Mic
USB 2.0
DVI-D Port
DisplayPort
HDMI
USB 3.1 (Gen1) Type C
USB 3.1 (Gen1) Type A
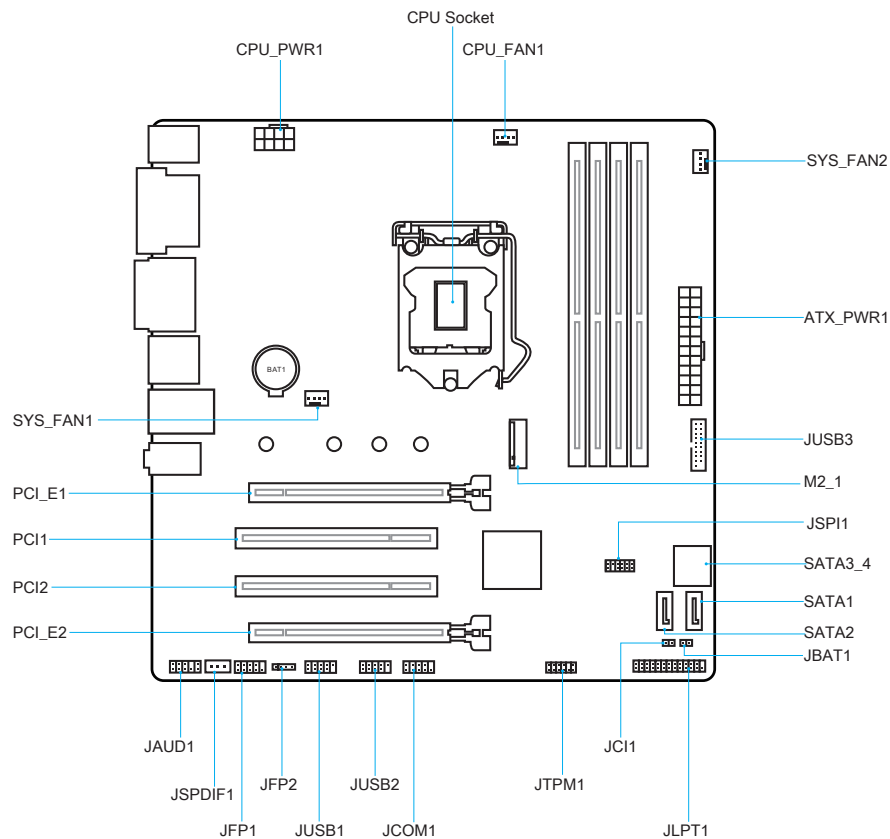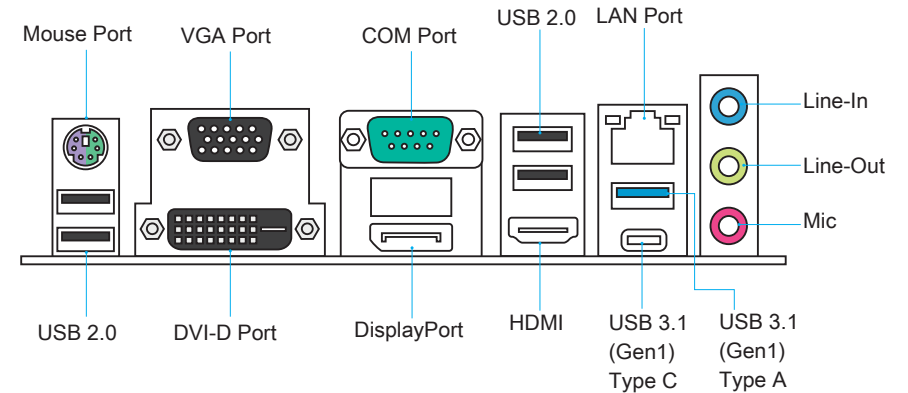
Motherboard Specification

CPU Support
- Supports 8th Gen Intel® Core™/ Pentium®/ Celeron® Processors for Socket LGA1151

Chipset
- Intel® H310 Chipset

Memory Support
- 4x DDR4 memory slots supporting up 32GB
- Supports DDR4 2666* MHz
- Support Dual-Channel mode
- Support non-ECC, un-buffered memory
- Supports Intel® Extreme Memory Profile (XMP)

    * Please refer www.msi.com for more information on compatible memory

Expansion Slots
- 1x PCIe 3.0 x16 slot (From CPU)
- 1x PCIe 2.0 x16 slot (From PCH)
- 2x PCI slots

Onboard Graphics
- 1x HDMI™ port, supports a maximum resolution of 4096x2160@30Hz
- 1x DVI-D port, supports a maximum resolution of 1920x1200@60Hz
- 1x VGA port, supports a maximum resolution of 2048x1536@50Hz, 2048x1280@60Hz, 1920x1200@60Hz
- 1x DisplayPort, supports a maximum resolution of 4096X2304@60Hz

Multi-GPU Support
- Supports 2-Way AMD® Crossfire™

Storage
- Intel® H310 Chipset
- 4x SATA 6Gb/s ports
- 1x M.2 port, supports PCIe 3.0 x4 and SATA 6Gb/s standards, 4.2cm/6cm/8cm/11cm length SSD cards

USB
- Intel® H310 Chipset
  ‣ 4x USB 3.1 Gen1 (2 ports on the back panel(A+C), 2 ports available through the internal USB connectors)
  ‣ 8x USB 2.0 ports (4 ports on the back panel, 4 ports available through the internal USB connectors)

Audio
- Realtek® ALC887 Codec
- 7.1-Channel High Definition Audio

LAN
- 1x Realtek 8111H Gigabit LAN controller

Back Panel Connectors
- 1x PS/2 keyboard/ mouse combo port
- 1x USB 3.1 Gen1 Type-A port
- 1x USB 3.1 Gen1 Type-C port
- 4x USB2.0 ports
- 1x VGA port
- 1x DVI-D port
- 1x DisplayPort port
- 1x HDMI port
- 1x Com port
- 3x LAN (RJ45) ports
- 3x audio jacks

Internal Connectors
- 1x 24-pin ATX main power connector
- 1x 4-pin ATX 12V power connector
- 4x SATA 6Gb/s connectors
- 1x M.2 slot
- 1x USB 3.1 Gen1 connector (supports additional 2 USB 3.1 Gen1 ports)
- 2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
- 1x parallel port connector
- 1x Serial port connector

- 1x 4-pin CPU Fan connector
- 2x 4-pin system Fan connectors
- 2x Front panel connectors
- 1x Front panel audio connector
- 1x TPM module connector
- 1x Chassis Intrusion connector
- 1x Clear CMOS jumper
- 1x SPDIF Out connector
- 4x EZ Debug LED

I/O Controller
- NUVOTON NCT6797D Controller Chip

Hardware Monitor
- CPU/System temperature detection
- CPU/System fan speed detection
- CPU/System fan speed control

BIOS Features
- Single BIOS
- 1x 128 Mb flash
- UEFI AMI BIOS
- ACPI 6.1 , SMBIOS 2.8
- Multi-language

PRO Series Features
- Audio
  ‣Audio Boost
- Network
  ‣ Realtek LAN with Network Genie
- Storage
  ‣ M.2
- Fan
  ‣ Smart Fan Control
- LED
  ‣ Mystic light
  ‣ EZ DEBUG LED
- Protection

  ‣ PCI-E Steel Armor
- Performance
  ‣ Multi GPU – CrossFire Technology
  ‣ Clear CMOS
  ‣ USB with type A+C
  ‣ 7000+ Quality Test
  ‣ DDR4 Boost
- VR
  ‣ VR Ready
- BIOS
  ‣ Click BIOS 5

Software features
- APP MANAGER
- SUPER CHARGER
- COMMAND CENTER
- LIVE UPDATE 6
- SMART TOOL
- RAMDISK
- DPC LATENCY TUNER
- FAST BOOT
- X-BOOST
- DRAGON EYE
- MYSTIC LIGHT
- NETWORK GENIE
- CPU-Z MSI GAMING
- Intel® Extreme Tuning Utility
- Google Chrome™, Google Toolbar, Google Drive
- Norton™ Internet Security Solution

Form Factor
- mATX
- 243.84mm x 243.84mm