MEG Z390 GODLIKE

(MS-7B10v1.2)
EATX Motherboard

Motherboard Components Overview

Rear I/O Panel

PS/2 Port BIOS FLASHBACK + VR
LAN Port
6.3mm headphone
Audio Ports
Wi-Fi /Bluetooth Antenna Connectors
Clear CMOS FlashBack Button
USB3.1 GEN2 Type-A
USB3.1 GEN1 Type-A
USB3.1 GEN2 Type-A+C
Optical S/PDIF-Out
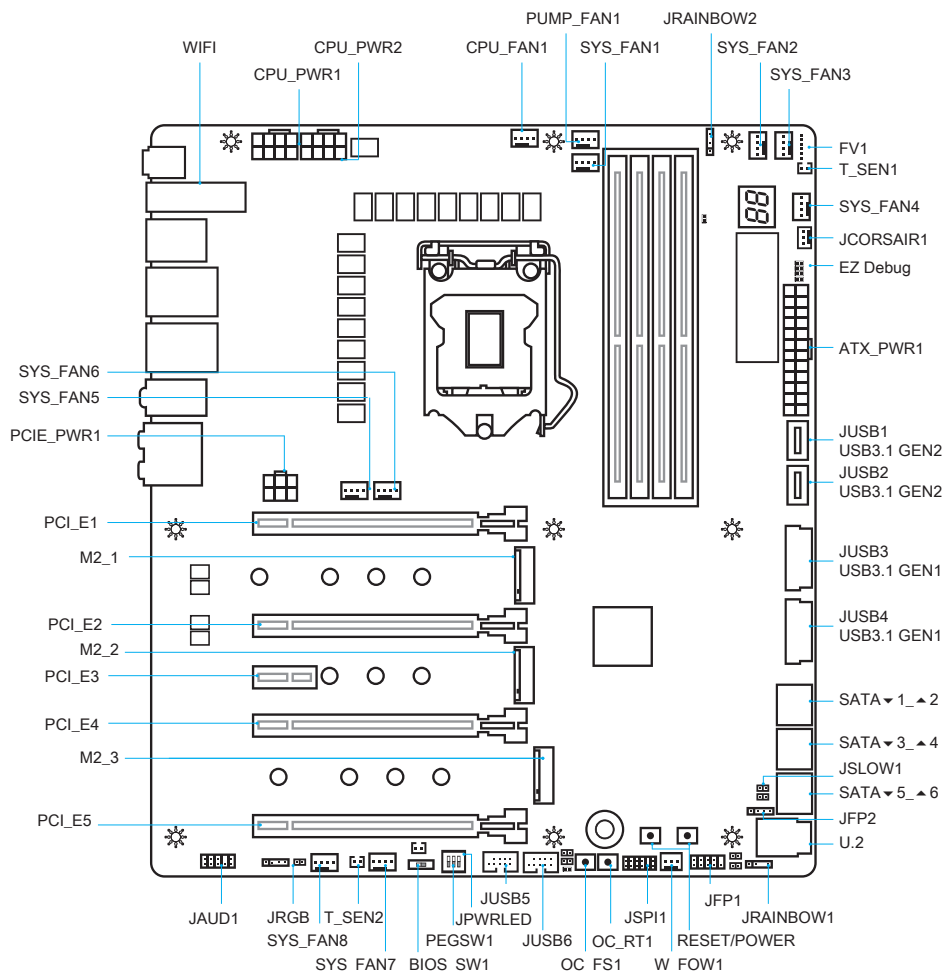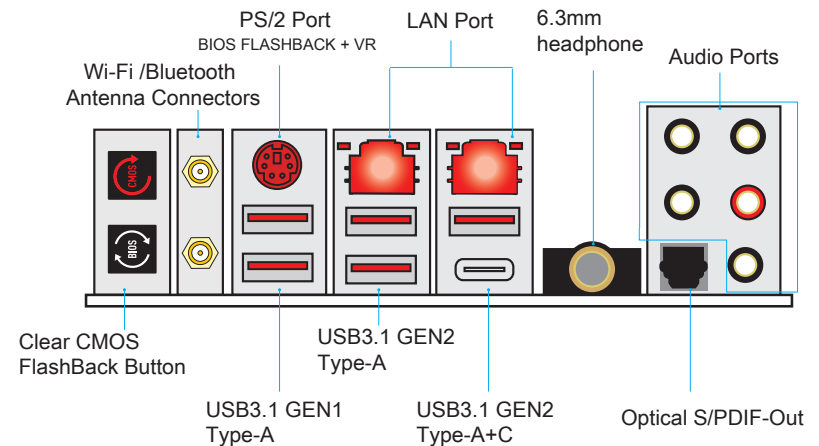
Motherboard Specification

CPU Support
- Supports Intel® Core™ 9000 Series family/ 8th Gen Intel® Core™ / Pentium® Gold / Celeron® processors for LGA 1151 socket*
  *Please go to intel.com for compatibility information

Chipset
- Intel® Z390 Express Chipset

Memory Support
- 4 x DDR4 memory slots supporting up 64GB
- 4600(OC)/4533(OC)/4500(OC)/4400(OC)/ 4300(OC)/4266(OC)/4200(OC)/4133(OC)/ 4000(OC)/ 3866(OC)/ 3733(OC)/ 3600(OC)/ 3466(OC)/ 3400(OC)/ 3333(OC)/ 3300(OC)/ 3200(OC)/ 3000(OC) /2800(OC)/ 2666/ 2400/ 2133 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
- 3x PCIe 3.0 x16 slots (From CPU)
- 1x PCIe 3.0 x16 slots (From PCH)
- 1x PCIe x1 slot (From PCH)

Multi-GPU Support
- Supports 2-Way NVIDIA® SLI™
- Supports AMD® 4-Way Crossfire™

Storage
- Intel® Z390 Chipset
- 1x U.2 port
  ▶ Supports PCIe 3.0 x4 NVMe storage
- 6x SATA 6Gb/s ports
- 2x M.2 ports, supports PCIe 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm/11cm length SSD cards
  *When M2_1 is SATA mode, SATA2 will be disabled
- 1x M.2 port, supports PCIe 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm length SSD cards
- Supports RAID 0, RAID1, RAID 5 and RAID 10
- Supports Intel® Smart Response Technology for Intel Core™ processors
- Intel® Optane™ Memory Ready ntel® Z390

Express Chipset

USB

- Intel® Z390 Chipset
  - ▸ 4x USB3.1 Gen2 Type-A / Type-C ports (4 ports on the back panel)
  - ▸ 2x USB3.1 Gen2 Type-C port (internal USB connector)
  - ▸ 2x USB 3.1 Gen1 ports (internal USB connectors)
  - ▸ 4x USB 2.0 ports (internal USB connectors)
- ASMedia® 1042 Chipset
  - ▸ 2x USB 3.1 Gen1 (2 ports on the back panel)
- ASMedia® 1074 Chipset
  - ▸ 2x USB 3.1 Gen1 ports (internal USB connectors)

Audio

- Realtek® ALC1220 Codec + ESS E9018 combo DAC
- 7.1-Channel High Definition Audio
- Supports S/PDIF output

LAN

- 2x Killer® E2500 Gigabit LAN controller

Wireless/ Bluetooth

- Wi-Fi 2x2 802.11 AC by Killer® 1550
- Bluetooth 4.1, 3.0 + HS
- 1 x M.2_3 Socket with E key (Wi-Fi mode)

Back Panel Connectors

- 1 x Clear CMOS / FlashBack button
- 2 x Wi-Fi Antenna connectors
- 1 x PS/2 keyboard/ mouse combo port
- 2 x USB 3.1 Gen1 ports
- 3 x USB 3.1 Gen2 Type-A port
- 1 x USB 3.1 Gen2 Type-C port
- 2 x LAN (RJ45) ports
- 1 x 6.3mm Gold-plated stereo headphone jack
- 1 x Optical S/PDIF OUT connector
- 5 x OFC audio jacks

Internal Connectors

- 1x 24-pin ATX main power connector

- 2x 8-pin ATX 12V power connector
- 1x 6-pin ATX PCIe power connector
- 6x SATA 6Gb/s connectors
- 4x M.2 slots (Key M x3 ,Key E x1)
- 1x U.2 port
- 2x USB 3.1 Gen2 Type-C port
- 2x USB 3.1 Gen1 connector (supports additional 4 USB 3.1 Gen1 ports)
- 2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
- 1x 4-pin CPU Fan connectors
- 1x 4-pin Water Pump connectors
- 8x 4-pin system Fan connectors
- 1x 3-pin Water Flow connectors
- 1x Front panel audio connector
- 2x System panel connectors
- 1x Chassis Intrusion connector
- 1x Slow mode jumper
- 1x OC retry button
- 1x OC fail set button
- 1x Power button
- 1x Reset button
- 1x JBLK_U1 pinheader
- 1x JBLK_D1 pinheader
- 1x OC button
- 2x 2-pin Thermal Sensors connector
- 1x OLED Display Panel
- 1x 4-pin RGB LED connector
- 2x 3-pin RAINBOW LED connector
- 1x 3-pin CORSAIR LED connector
- 1x 2-Digit Debug Code LED
- 4x EZ Debug LED

I/O Controller

- NUVOTON NCT6797 Controller Chip

Hardware Monitor

- Water Flow detection
- CPU/System temperature detection
- CPU/System fan speed detection
- CPU/System fan speed control

BIOS Features

- Dual BIOS
- 2x 128 Mb flash
- UEFI AMI BIOS
- ACPI 6.1, SMBIOS 2.8
- Multi-language

Special Features

- Audio
  - ▸ Xtreme Audio DAC
  - ▸ Nahimic 3
- Network
  - ▸ Killer TripleShoot
  - ▸ GAMING LAN with Killer LAN Manage
  - ▸ Killer WiFi
- Storage
  - ▸ Turbo U.2
  - ▸ Triple Turbo M.2
- Fan
  - ▸ Pump Fan
  - ▸ Smart Fan Control
- LED
  - ▸ Mystic Light 3
  - ▸ Mystic Light Extension (RGB)
  - ▸ Mystic Light Extension (RAINBOW)
  - ▸ Mystic Light Extension (CORSAIR)
  - ▸ Mystic Light Sync
  - ▸ EZ DEBUG LED
  - ▸ OLED Display Panel
- Protection
  - ▸ DDR4 Steel Armor
  - ▸ M.2 Shield 3
  - ▸ PCIe Steel Armor
  - ▸ U.2 Steel Armor
- Performance
  - ▸ Exclusive ESS SABRE HiFi DAC for lossless, high-quality audio
  - ▸ Multi GPU-SLI Technology
  - ▸ Multi GPU-CrossFire Technology
  - ▸ DDR4 Boost
  - ▸ GAME Boost

- ▸ Streaming Boost
- ▸ OC Engine
- ▸ Lightning USB
- ▸ Front Lightning USB
- ▸ USB with type A+C
- Stability
  - ▸ 7000+ Quality Test
- VR
  - ▸ VR Ready
- Gamer Experience
  - ▸ GAMING HOTKEY
  - ▸ GAMING MOUSE Control
- BIOS
  - ▸ Click BIOS 5
  - ▸ BIOS FLASHBACK+
  - ▸ Dual BIOS
- Certification
  - ▸ Quadro SLI Ready
  - ▸ Quadro Ready
  - ▸ GAMING Certified
  - ▸ SteelSeries Certified

Dragon Center Feature

- GAME OPTIMIZATION
- OC Performance
- Hardware Monitor
- Eyerest
- LAN Manager
- Live Update

SW Feature

- DRAGON CENTER
- MYSTIC LIGHT
- Killer Control Center
- Nahimic Audio
- CPU-Z MSI GAMING
- Intel Extreme Tuning Utility

Form Factor

- E-ATX
- 305mmx272mm