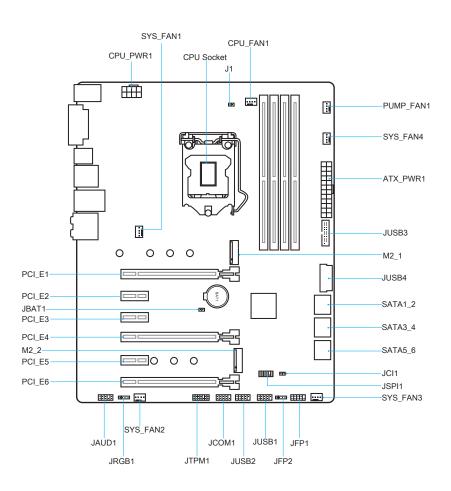


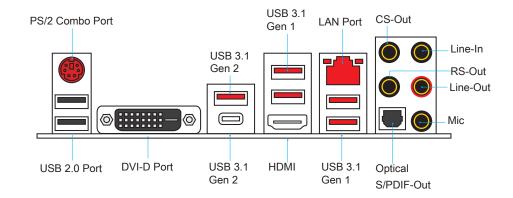
Z370 TOMAHAWK

(MS-7B47 v1.0)
ATX Motherboard

Motherboard Components Overview



Rear I/O Panel



Motherboard Specification

CPU Support

Supports 8th Generation Intel® Core™
 Processors, and Intel® Pentium® and
 Celeron® Processors for Socket LGA1151

Chipset

Intel® Z370 Express Chipset

Memory Support

- 4 x DDR4 memory slots supporting up 64GB
- Supports DDR4-3800+(OC) Memory
- 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 PCle 3.0 x16 slot (From CPU)
- 2x PCle 3.0 x16 slots (From PCH)
- 3x PCle 3.0 x1 slots (From PCH)

Onboard Graphics

- 1x HDMI[™] port, supports a maximum resolution of 4096x2160@30Hz(8th CPU), 4096x2160@24Hz(6th CPU), 2560x1600@60Hz
- 1x DVI-D port, supports a maximum resolution of 1920x1200@60Hz

Multi-GPU Support

Supports 2-Way AMD® Crossfire™

Storage

- Intel® Z370 Chipset
- 6x SATA 6Gb/s ports
- 1x M.2 ports, supports PCle 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm/11cm length SSD cards
- 1x M.2 port, supports PCle 3.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm length SSD cards
- Supports RAID 0, RAID1, RAID 5 and RAID 10

Motherboard Specification

 Intel® Optane™ Memory Ready Intel® Z370 Express Chipset

USB

- Intel® Z370 Chipset
- 8x USB 3.1 Gen1 (4 ports on the back panel, 4 ports available through the internal USB connectors)
- 6x USB 2.0 ports (2 ports on the back panel, 4 ports available through the internal USB connectors)
- ASMedia® ASM3142 Chipset
- 2x USB3.1 Gen2 Type-A / Type-C ports (2 ports on the back panel)

Audio

- Realtek® ALC892 Codec
- 7.1-Channel High Definition Audio
- Supports S/PDIF output

LAN

• 1x Intel I219-V Gigabit LAN controller

Back Panel Connectors

- 1x PS/2 keyboard/ mouse port
- 1x HDMI port
- 1x DVI- D port
- 2x USB 2.0 ports
- 4x USB 3.1 Gen 1 ports
- 1x USB 3.1 Gen2 Type-A port
- 1x USB 3.1 Gen2 Type-C port
- 1x LAN(RJ45) port
- 5x OFC audio jacks
- 1x Optical S/PDIF OUT connector

Internal Connectors

- 1x 24-pin ATX main power connector
- 1x 4-pin ATX 12V power connector
- 6x SATA 6Gb/s connectors
- 2x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
- 2x USB 3.1 Gen1 connectors (supports additional 4USB 3.1 Gen1 ports)

- 1x 4-pin CPU fan connector
- 1x 4-pin PUMP fan connector
- 4x 4-pin system fan connectors
- 1x 4-pin RGB LED connector
- 1x com port connector
- 1x Clear CMOS jumper
- 1x Front panel audio connector
- 2x Front panel connectors
- 1x Chassis Intrusion connector
- 1x Refresh BIOS
- 1x TPM module

I/O Controller

NUVOTON NCT6795 Controller Chip

Hardware Monitor

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

BIOS Features

- 1x 128 Mb flash
- UEFI AMI BIOS
- ACPI 6.0, SMBIOS 3.0
- Multi-language

Arsenal GAMING features

- Audio
- -Audio Boost
- Networkt
- GAMING LAN with Gaming LAN Manage
- WTFast
- Storage
- ► Twin Turbo M.2
- M 2 Genie
- ► Intel® Optane™ Memory Ready
- Fan
- Pump Fan
- Smart Fan Control
- LED

- Mystic Light
- ► Mystic Light Extension (RGB)
- ► Gaming DNA with bottom LED
- Mystic light SYNC
- ▶ EZ DEBUG LED
- Protection
- ▶ PCIe Steel Armor
- Performance
- ► Multi GPU-CrossFire Technology
- DDR4 Boost
- ► GAME Boost
- ▶ Lightning USB
- ▶ USB with type A+C
- X-Boost
- Stability
- ▶ Military Class 5
- ▶ 7000+ Quality Test
- VR
- ▶ VR Readv
- Gamer Experience
- ▶ Dragon eye
- Xsplit
- ► RAMDisk
- ► GAMING HOTKEY
- BIOS
- ► Click BIOS 5
- Certification
- GAMING Certified
- SteelSeries Certified

Software Features

- Command Center
- Command Center Lite
- Command Center Lite Memory
- Live Update 6
- Fast Boot
- Super Charger
- DPC Latency Tuner

- X-boost
- MSI smart tool
- GAMING APP
- GAMING LAN manager
- XSplit Gamecaster V2
- SteelSeriesEngine 3
- Dragon eye
- WTFast
- Intel Extreme Tuning Utility
- Norton Internet Security Solution
- Google Chrome
- Google Toolbar
- Google Drive
- CPU-Z MSI GAMING

Form Factor

- ATX
- 30.4 cm x 24.3 cm