## A68HM-PLUS

Note: The specifications are subject to change without notice.

| | |
|---|---|
| **CPU** | AMD Socket FM2+/FM2 for A- series/Athlon™Series Processors |
| | Supports CPU up to 4 cores |
| | AMD® Turbo Core Technology 3.0 support |
| | * Refer to www.asus.com for the AMD® CPU support list. |
| **Chipset** | AMD® A68H FCH |
| **Memory** | 2 x DDR3 DIMM, max. 32GB, DDR3 2400(O.C)/2133/ 1866/1600/1333MHz, non-ECC un-buffered memory Dual Channel memory architecture |
| | *The Max. 32 GB memory capacity can be supported with DIMMs of 16GB (or above). ASUS will update QVL once the DIMMs are available on the market. |
| | * Refer to www.asus.com or user manual for Memory QVL (Qualify Vendor List) |
| | * Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Install a 64-bit Windows® OS when you want to install 4GB or more memory on the motherboard |
| | *Hyper DIMM support is subject to the physical characteristics of individual CPUs. |
| **Graphics** | Integrated AMD  Radeon™ R7/HD 8000/HD 7000  Series Graphics in the A-Series  APU |
| | Multi-VGA output support: HDMI/DVI/D-Sub port |
| |  -Supports HDMI with max. resolution 4096x2160*@24Hz/1920x1200@60Hz |
| |  - Supports Dual-link DVI with max. resolution 2560 x 1600@60Hz |
| |  - Supports D-Sub with max. resolution 1920 x 1600@60Hz |
| |  - Maximum shared memory of 2G |
| | AMD® Dual Graphics technology support** |
| | *Only FM2+ APU can support up to 4096 x 2160 resolution display via HDMI port |
| | **Refer to http://www.amd.com/us/products/technologies/dual-graphics/Pages/dual-graphics.aspx#3 for the discrete GPUs which support Dual Graphics technology |
| **Expansion Slots** | 1x PCI Express 3.0*/2.0 x16 slot |
| | 1 x PCI Express 2.0 x1 slot |
| | 1 x PCI slot |
| | *Only FM2+ CPU can support PCIe 3.0 |
| **Storage** | AMD® A68H FCH: |
| | 4 x Serial ATA 6Gb/s connectors with RAID 0, RAID 1,RAID 10 and JBOD support |
| **LAN** | Reaktk 8111GR Gigabit LAN controller |
| | Realtek® ALC 887-VD 8-Channel High Definition Audio CODEC |
| | *Use a chassis with HD audio module in the front panel to support an 8-channel audio output. |

| | |
|---|---|
| **Audio** | **Audio Features:** |
| | - **LED-lit audio shielding**: Ensures precision analog/digital separation and greatly reduced multi-lateral interference, with a gorgeous illuminated trace path |
| | - **Special layout design**: Separate layers for left and right channels to guard the quality of the sensitive audio signal |
| | - **Premium Japanese-made audio capacitors**: Provide warm, natural and immersive sound with exceptional clarity and fidelity. |
| **USB** | ASMedia 1042 Controller : |
| | - 2 x USB 3.0 port(s) (2 at back panel, blue) |
| | AMD® A68H FCH : |
| | - 2 x USB 3.0 port(s) (2 at mid-board) |
| | AMD® A68H FCH : |
| | -6 x USB2.0 ports(2 ports at back panel,4 ports at mid-board) |
| **ASUS Unique Features** | **ASUS 5X Protection** |
| | - ASUS motherboards safeguard your PC with 5X Protection: DIGI+VRM, DRAM Fuse, ESD Guards, High-Quality Solid Capacitors, and Stainless Steel Back I/O to ensure the best quality, reliability, and durability. |
| | **ASUS DIGI+ VRM** |
| | - ASUS DIGI+ VRM: Digital Power Design for the APU |
| | - ASUS 3+2 Phase Power Design |
| | **ASUS DRAM Fuse** |
| | - Enhanced DRAM overcurrent protection and short circuit damage prevention |
| | **ASUS ESD Guards** |
| | - Strong ESD protection for extended component lifespan |
| | **ASUS High-Quality Solid Capacitors** |
| | - 2.5x Longer lifespan with excellent durability |
| | **ASUS Stainless Steel Back I/O** |
| | - 3x More durable corrosion-resistant coating |
| | **ASUS Exclusive Features :** |
| | - ASUS EPU |
| | - ASUS USB3.0 Boost |
| | - ASUS Ai Charger+ |
| | - ASUS Disk Unlocker |
| | - ASUS AI Suite 3 |
| | - ASUS Anti-Surge |
| | - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface |

| | | |
|---|---|---|
| | **ASUS Quiet Thermal Solution** | |
| | - ASUS Fan Xpert | |
| | - Stylish Fanless Design Heat-sink solution | |
| | **ASUS EZ DIY** | |
| | - ASUS CrashFree BIOS 3 | |
| | - ASUS EZ Flash 2 | |
| | - ASUS MyLogo 2 | |
| **Back Panel I/O Ports** | 1 x PS/2 Keyboard | |
| | 1 x PS/2 Mouse | |
| | 1 x HDMI Port | |
| | 1 x DVI Port | |
| | 1 x D-Sub Output port | |
| | 1 x LAN (RJ45) port | |
| | 2 x USB 3.0 ports | |
| | 2 x USB 2.0/1.1 ports | |
| | 8 channel Audio(3 Jacks) | |
| **Onboard Connector** | 1 x USB3.0 connectors support additional 2 USB3.0 ports | |
| | 2 x USB 2.0 connectors support additional 4 USB 2.0 ports | |
| | 4 x SATA 6Gb/s connectors | |
| | 1 x System Panel connector | |
| | 1 x Internal Speaker connector | |
| | 1 x CPU Fan connectors | |
| | 1 x SPDIF_out connectors | |
| | 1 x Chassis Fan connectors | |
| | 1 x High Definition front panel audio connector | |
| | 1 x COM header | |
| | 1 x TPM header | |
| | 24-pin EATX power connector | |
| | 4-pin ATX 12V Power connector | |
| **BIOS** | 64 Mb Flash ROM, UEFI BIOS, PnP, DMI v2.0, WfM2.0, SM BIOS V2.7, ACPI V2.0a | |
| | 2 x Serial ATA 6Gb/s cables | |

| | | |
|---|---|---|
| **Accessories** | 1x IO Shield | |
| | 1 x Support DVD | |
| | User's manual | |
| **Support DVD** | Drivers | |
| | ASUS utilities | |
| | ASUS Update | |
| | Anti-virus software (OEM version) | |
| **Operating System Support** | Windows® 8.1 / 8.1 64-bit | |
| | Windows® 8 / 8 64-bit | |
| | Windows® 7 / 7 64-bit | |
| | Windows® XP | |
| **Form factor** | mATX Form Factor, 8.9*7.2(22.6cm x 18.3cm) | |