

H87M-PLUS Specification

Note: The specifications are subject to change without notice.

CPU	<p>LGA1150 socket for Intel® 4th Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors</p> <p>Supports 22nm CPU</p> <p>Supports Intel® Turbo Boost Technology 2.0</p> <p>* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.</p> <p>** Refer to www.asus.com for Intel® CPU support list.</p>
Chipset	<p>Intel® H87 Express Chipset</p>
Memory	<p>4 x DIMMs, max. 32GB, DDR3 1600/1333/1066 MHz, non-ECC, un-buffered memory</p> <p>Dual channel memory architecture</p> <p>Supports Intel® Extreme Memory Profile (XMP)</p> <p>*Hyper DIMM support is subject to the physical characteristics of individual CPUs. Some hyper DIMMs only support one DIMM per channel. Please refer to Memory QVL for details.</p> <p>**Due to Intel® chipset limitation, the DDR3 1600MHz and higher memory modules on XMP mode will run at the maximum transfer rate of DDR3 1600MHz.</p> <p>*** Refer to www.asus.com or this user manual for the Memory QVL (Qualified Vendors List).</p>
Expansion Slots	<p>1 x PCI Express 3.0*/2.0 x16 slot (@ x16 mode)</p> <p>1 x PCI Express 2.0 x16 slot (@ x4 mode, compatible with PCIe x1, x2 and x4 devices)</p> <p>2 x PCI slots</p>
VGA	<p>Integrated Graphics Processor - Intel® HD Graphics support</p> <p>Multi-VGA output support: HDMI, DVI, RGB port</p> <ul style="list-style-type: none"> - Supports HDMI with max. resolution up to 4096 x 2160 @24Hz / 2560 x 1600@60Hz - Supports DVI with max. resolution up to 1920 x 1200 @60Hz - Supports RGB with max. resolution up to 1920 x 1200 @60Hz <p>- Maximum shared memory of 1024MB</p>
Multi-GPU support	<p>Supports AMD® Quad-GPU CrossFireX™ Technology</p>
Storage	<p>Intel® H87 Express Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology 12 support</p> <ul style="list-style-type: none"> - 6 x SATA 6.0 Gb/s ports (yellow) - Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology* <p>* These functions will work depending on the CPU installed.</p>
LAN	<p>Realtek® 8111G Gigabit LAN</p>
Audio	<p>Realtek ALC887 8-channel* High Definition Audio CODEC</p> <ul style="list-style-type: none"> - Supports Jack-Detection, Multi-Streaming and Front Panel Jack-Retracking <p>* Use a chassis with HD audio module in the front panel to support an 8-channel audio output</p>
USB	<p>Intel® H87 Express Chipset- supports ASUS USB 3.0 Boost</p> <ul style="list-style-type: none"> - 2 x USB 3.0/2.0 ports at mid-board for front panel support - 4 x USB 3.0/2.0 ports at back panel (blue) - 8 x USB 2.0/1.1 ports (6 ports at mid-board, 2 ports at the back panel)
ASUS Unique Features	<p>ASUS 5X Protection</p> <ul style="list-style-type: none"> - ASUS motherboards safeguard your PC with 5X Protection: DIGI+VRM, DRAM Fuse, ESD Guards, All 5K-Hour Solid Capacitors, and Stainless Steel Back I/O to ensure the best quality, reliability and performance. <p>ASUS DIGI+ VRM</p> <ul style="list-style-type: none"> - ASUS DIGI+ VRM: Digital Power Design for the CPU - ASUS 4 Phase Power Design - ASUS CPU power utility <p>ASUS DRAM Fuse</p> <ul style="list-style-type: none"> - Enhanced DRAM overcurrent protection and short circuit damage prevention <p>ASUS ESD Guards</p> <ul style="list-style-type: none"> - Strong ESD protection for extended component lifespan <p>ASUS All 5K-Hour Solid Capacitors</p> <ul style="list-style-type: none"> - 2.5x Longer lifespan with excellent durability <p>ASUS Stainless Steel Back I/O</p> <ul style="list-style-type: none"> - 3x More durable corrosion-resistant coating <p>ASUS EPU</p> <ul style="list-style-type: none"> - EPU <p>ASUS Exclusive Features</p> <ul style="list-style-type: none"> - ASUS USB 3.0 Boost - GPU Boost - Network iControl - MemOK! - AI Suite 3 - AI Charger - Anti-Surge protection <p>ASUS Quiet Thermal Solution</p> <ul style="list-style-type: none"> - ASUS Fanless Design: Stylish Heatsink solution - ASUS Fan Xpert2 featuring Fan Auto Tuning function for optimized speed control <p>ASUS EZ DIY</p> <ul style="list-style-type: none"> - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2
Other features	<p>100% All High-quality Conductive Polymer Capacitors</p>
Back Panel I/O Ports	<p>1 x PS/2 keyboard / mouse combo port</p> <p>4 x USB 3.0/2.0 ports</p> <p>2 x USB 2.0/1.1 ports</p> <p>1 x HDMI port</p> <p>1 x DVI port</p> <p>1 x RGB port</p> <p>1 x LAN (RJ-45) port</p> <p>3-Jack 8-Channel Audio I/O ports</p>
Internal I/O Connectors	<p>1 x USB 3.0/2.0 connectors support additional 2 USB 3.0/2.0 ports</p> <p>3 x USB 2.0/1.1 connectors support additional 6 USB 2.0/1.1 ports</p> <p>6 x SATA 6.0Gb/s connectors</p> <p>1 x CPU Fan connector</p> <p>2 x Chassis Fan connectors</p> <p>1 x Front panel audio connector</p> <p>1 x S/PDIF Out header</p> <p>1 x 24-pin EATX Power connector</p> <p>1 x 8-pin EATX 12V Power connector</p> <p>1 x System Panel</p> <p>1 x Mem OK! Button</p> <p>1 x TPM header</p> <p>1 x LPT header</p> <p>1 x COM header</p> <p>1 x Clear CMOS jumper</p>
BIOS	<p>8 MB Flash ROM, UEFI AMI BIOS, Green, PnP, DMI2.0, WfM2.0, SM BIOS 2.7, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, F3 Shortcut Function</p>
Manageability	<p>WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE</p>
Accessories	<p>2 x Serial ATA 6.0Gb/s cables</p> <p>1 x I/O shield</p> <p>1 x Support DVD</p> <p>1 x User's manual</p>
Support DVD	<p>Drivers</p> <p>ASUS Utilities</p> <p>EZ Update</p> <p>Anti-virus software (OEM version)</p>
Form Factor	<p>µATX Form Factor, 9.6"x 8.6" (24.4cm x 21.9cm)</p>