

## H61M-K

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**CPU** Intel® Socket 1155 for 3<sup>rd</sup>/2<sup>nd</sup> Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors  
Supports Intel® 22 nm CPU  
Supports Intel® 32 nm CPU  
Supports Intel® Turbo Boost Technology 2.0  
Supports CPU up to 77 W  
\* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.  
\* Refer to [www.asus.com](http://www.asus.com) for CPU support list

**Chipset** Intel® H61(B3)

**Memory** 2 x DIMM, Max. 16GB, DDR3 2200(O.C.)/2133(O.C.)/2000(O.C.)/1866(O.C.)/1600/1333/1066 MHz Non-ECC, Un-buffered Memory  
Dual Channel Memory Architecture  
\* 1600MHz and higher frequency is supported by Intel® 3rd generation processors.  
\* Refer to [www.asus.com](http://www.asus.com) for the Memory QVL (Qualified Vendors Lists).  
\* 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.  
\* Due to the CPU behavior, DDR3 2133/1866MHz memory module will run at DDR3 2000/1800MHz frequency as default.

**Graphic** Integrated Graphics Processor  
Multi-VGA output support : DVI/RGB ports  
- Supports DVI with max. resolution 1920 x 1200 @ 60 Hz  
- Supports RGB with max. resolution 2048 x 1536 @ 75 Hz  
Maximum shared memory of 1024 MB

**Expansion Slots** 1 x PCIe 3.0/2.0 x16 \*1  
2 x PCIe 2.0 x1

**Storage** Intel® H61(B3) chipset :  
4 x SATA 3Gb/s port(s), blue

**LAN** Realtek® 8111F, 1 x Gigabit LAN Controller(s)

**Audio** Realtek® ALC887 8-Channel High Definition Audio CODEC \*2

**USB Ports** Intel® H61(B3) chipset :  
8 x USB 2.0 port(s) (4 at back panel, black, 4 at mid-board)

**Special Features** **ASUS Exclusive Features :**  
- AI Suite II  
- Ai Charger  
- Anti-Surge  
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface  
- Network iControl  
**ASUS Quiet Thermal Solution :**  
- ASUS Fan Xpert  
**ASUS EZ DIY :**  
- ASUS CrashFree BIOS 3  
- ASUS EZ Flash 2  
- ASUS MyLogo 2

**Back I/O Ports** 1 x PS/2 keyboard (purple)  
1 x PS/2 mouse (green)  
1 x DVI  
1 x D-Sub  
1 x LAN (RJ45) port(s)

4 x USB 2.0  
H61M-K  
4-pin Jack(s)

**Internal I/O Ports**

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)  
4 x SATA 3Gb/s connector(s)  
1 x CPU Fan connector(s) (4 -pin)  
1 x Chassis Fan connector(s) (4 -pin)  
1 x 24-pin EATX Power connector(s)  
1 x 4-pin ATX 12V Power connector(s)  
1 x Front panel connector(s)  
1 x Front panel audio connector(s) (AAFP)  
1 x Internal speaker connector(s)  
1 x Clear CMOS jumper(s)

**Accessories**

I/O Shield  
2 x SATA 3Gb/s cable(s)

**BIOS** 64Mb Flash ROM, UEFI BIOS, PnP, DMI v2.0, WfM2.0, SMBIOS v2.7, ACPI v2.0a, SLP3.0, EUP-ready

**Manageability** WOL, PXE, PME Wake Up

**Support Disc**

Drivers  
ASUS Utilities  
ASUS Update  
Anti-Virus Software (OEM Version)

**Form Factor**

ATX Form Factor  
8.9 inch x 6.9 inch ( 22.6 cm x 17.5 cm )

**Note**\*1: Intel® 3rd Generation Core™ processors support PCIe 3.0 speed.

\*2: Use a chassis with HD audio module in the front panel to support an 8-channel audio output.

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.

## H61M-K

The following table shows the supported CPUs for this motherboard

PU	Since PCB	Since BIOS	Note
Celeron G470 (2.0G,1C,HT,35W,32nm,L3:1.5MB,HD,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Core i3-2100 (3.1G,L3:3M,iGPU,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Core i3-2100T (2.5G,L3:3M,iGPU,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Core i3-2105 (3.1G,L3:3M,iGPU,2C,rev.D2)	ALL	0306	<input type="button" value="GO"/>
Core i3-2120 (3.3G,L3:3M,iGPU,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Core i3-2120T (2.6G,L3:3M,iGPU,2C)	ALL	0306	<input type="button" value="GO"/>
Core i3-2125 (3.3G,L3:3M,iGPU,2C)	ALL	0306	<input type="button" value="GO"/>
Core i3-2130 (3.4G,L3:3M,iGPU,2C)	ALL	0306	<input type="button" value="GO"/>
Core i3-3210 (3.2G,L3:3M,iGPU,GT1,55W,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Core i3-3220 (3.3G,L3:3M,iGPU,2C,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i3-3220T (2.8G,L3:3M,iGPU,2C,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i3-3225 (3.3G,L3:3M,iGPU,2C,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i3-3240 (3.4G,L3:3M,iGPU,2C,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i3-3240T (2.9G,L3:3M,iGPU,2C,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i3-3240T (2.9G,L3:3M,iGPU,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Core i3-3245 (3.4G,2C,HT,L3:3M,55W,GT1,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i3-3250 (3.5G,2C,HT,L3:3M,55W,GT1,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Core i3-3250T (3.0G,2C,HT,L3:3M,35W,GT1,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Core i5-2390T (2.7G,L3:3M,iGPU,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Core i5-2400S (2.5G,L3:6M,iGPU,4C,rev.D2)	ALL	0306	<input type="button" value="GO"/>
Core i5-2405S (2.5G,L3:6M,iGPU,4C,rev.D2)	ALL	0306	<input type="button" value="GO"/>
Core i5-2500S (2.7G,L3:6M,iGPU,4C,rev.D2)	ALL	0306	<input type="button" value="GO"/>
Core i5-2500T (2.3G,L3:6M,iGPU,4C,rev.D2)	ALL	0306	<input type="button" value="GO"/>
Core i5-3330 (3.0G,L3:6M,iGPU,4C,VT-d,77W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3330S (2.7G,L3:6M,iGPU,4C,VT-d,65W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3340 (3.1G, L3:6M, GT1, 4C, VT-d,77W, rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3340 (3.1G, L3:6M, GT1, 4C, VT-d,77W, rev.N0)	ALL	0306	<input type="button" value="GO"/>
Core i5-3340S (2.8G, L3:6M, GT1, 4C, VT-d, 65W, rev.E1)	ALL	0306	<input type="button" value="GO"/>

PU	Since PCB	Since BIOS	Note
Core i5-3350P (3.1G,L3:6M,4C,69W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3450 (3.1G,L3:6M,iGPU,4C,VT-d,77W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3450S (2.8G,L3:6M,iGPU,4C,VT-d,65W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3470 (3.2G,L3:6M,iGPU,4C,VT-d,77W,rev.N0)	ALL	0306	<input type="button" value="GO"/>
Core i5-3470S (2.9G,L3:6M,iGPU,4C,VT-d,65W,rev.N0)	ALL	0306	<input type="button" value="GO"/>
Core i5-3470T (2.9G,L3:3M,iGPU,D ,VT-d,35W,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3475S (2.9G,L3:6M,iGPU,GT2,4C,VT-d,65W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3550 (3.3G,L3:6M,iGPU,4C,VT-d,77W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3550S (3.0G,L3:6M,iGPU,4C,VT-d,65W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3570 (3.4G,L3:6M,iGPU,4C,VT-d,77W,rev.N0)	ALL	0306	<input type="button" value="GO"/>
Core i5-3570K (3.4G,L3:6M,iGPU,4C,77W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i5-3570S (3.1G,L3:6M,iGPU,4C,VT-d,65W,rev.N0)	ALL	0306	<input type="button" value="GO"/>
Core i5-3570T (2.3G,L3:6M,iGPU,4C,VT-d,45W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i7-2600S (2.8G,L3:8M,iGPU,4C,rev.D2)	ALL	0306	<input type="button" value="GO"/>
Core i7-3770 (3.4G,L3:8M,iGPU,4C,HT,VT-d,77W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i7-3770K (3.5G,L3:8M,iGPU,4C,HT,77W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i7-3770S (3.1G,L3:8M,iGPU,GT2,4C,HT,VT-d,65W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Core i7-3770T (2.5G,L3:8M,iGPU,GT2,4C,HT,VT-d,45W,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1610 (2.6GHz,55W,L3:2MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1610 (2.6GHz,55W,L3:2MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1610T (2.3GHz,35W,L3:2MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1610T (2.3GHz,35W,L3:2MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1620 (2.7GHz,55W,L3:2MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1620 (2.7GHz,55W,L3:2MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1620T (2.4GHz, 2C, 35W, L3:2MB, rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G1630 (2.8GHz, 55W, L3:2MB, 2C, rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G440 (1.6G,35W,32nm,1MB,1C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G460 (1.8G,35W,32nm,1.5MB,1C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G465 (1.9G,35W,32nm,1.5MB,1C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G530 (2.4G,65W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G530T (2.0G,35W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G540 (2.5G,65W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G540T (2.1G,35W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>

PU	Since PCB	Since BIOS	Note
Intel Celeron G550 (2.6G,65W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G550T (2.2G,35W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Celeron G555 (2.7G,65W,32nm,2MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2010 (2.8GHz,55W,22nm,3MB,2C,rev.E1)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2010 (2.8GHz,55W,22nm,3MB,2C,rev.L1)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2010 (2.8GHz,55W,22nm,3MB,2C,rev.N0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2010 (2.8GHz,55W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2010 (2.8GHz,55W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2020 (2.9GHz,55W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2020 (2.9GHz,55W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2020T (2.5GHz,35W,22nm,GT1,L3:3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2020T (2.5GHz,35W,22nm,GT1,L3:3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2100T (2.6GHz,35W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2120 (3.1GHz,55W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G2130 (3.2GHz,55W,22nm,3MB,2C,rev.P0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G620 (2.6G,65W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G620T (2.2G,35W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G630 (2.7G,65W,32nm,3MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G630T (2.3G,35W,32nm,3MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G640 (2.8G,65W,32nm,3MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G640T (2.4G,35W,32nm,3MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G645 (2.9G,65W,32nm,3MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G645T (2.5G,35W,32nm,3MB,2C)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G840 (2.8G,65W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G850 (2.9G,65W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G860 (3.0G,65W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G860T (2.6G,65W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Pentium G870 (3.1G,65W,32nm,3MB,2C,rev.Q0)	ALL	0306	<input type="button" value="GO"/>
Intel Xeon E3-1230 v2 (3.3G,L3:8M,4C,HT,69W)	ALL	0306	<input type="button" value="GO"/> Since Xeon CPU is not desktop CPU model, some feature may not able to work on this combination. For detail, refer to support.asus.com

PU	Since PCB	Since BIOS	Note
Intel Xeon E3-1245 v2 (3.4G,L3:8M,4C,HT,77W)	ALL	0306 <input type="button" value="GO"/>	Since Xeon CPU is not desktop CPU model, some feature may not able to work on this combination. For detail, refer to support.asus.com
Pentium G2030 (3.0GHz,55W,2C,GT1,22nm,L3:3MB,rev.P0)	ALL	0306 <input type="button" value="GO"/>	
Pentium G2030T (2.6GHz,35W,2C,GT1,22nm,L3:3MB,rev.P0)	ALL	0306 <input type="button" value="GO"/>	
Pentium G2120T (2.7GHz,35W,2C,GT1,22nm,L3:3MB,rev.P0)	ALL	0306 <input type="button" value="GO"/>	
Pentium G2140 (3.3GHz,55W,2C,GT1,22nm,L3:3MB,rev.P1)	ALL	0306 <input type="button" value="GO"/>	