

Z87-K Specifications

Note: The specifications are subject to change without notice.

CPU	<p>LGA1150 socket for 4th Generation Intel® Core™ i7/ i5/ i3/Pentium®/Celeron® Processors Supports 22nm CPU Supports Intel® Turbo Boost Technology 2.0* * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types. ** Refer to www.asus.com for Intel® CPU support list.</p>
Chipset	Intel® Z87 Express Chipset
Memory	<p>4 x DIMMs, max. 32GB, DDR3 2933(O.C.)*/2800(O.C.)*/2666(O.C.)*/2600(O.C.)*/2400(O.C.)*/2200(O.C.)*/2133(O.C.)*/2000(O.C.)*/1866(O.C.)*/1600/1333 MHz, non-ECC, un-buffered memory Dual channel memory architecture Supports Intel® Extreme Memory Profile (XMP) * Hyper DIMM support is subject to the physical characteristics of individual CPUs. Please refer to Memory QVL (Qualified Vendors List) for details. ** Refer to www.asus.com for the Memory QVL (Qualified Vendors List).</p>
VGA	<p>Integrated Graphics Processor - Intel® HD Graphics support Multi-VGA output support: HDMI/DVI/RGB port - Supports HDMI with max. resolution 4096 x 2160@24Hz / 2560 x 1600@60Hz - Supports DVI with max. resolution 1920 x 1200@60Hz - Supports RGB with max. resolution 1920 x 1200@60Hz - Supports up to 3 displays simultaneously - Supports Intel® InTru™ 3D, Intel® Quick Sync Video, Intel® Clear Video HD Technology, and Intel® Insider™ - Maximum shared memory of 1024MB</p>
Multi-GPU support	<p>Supports AMD® Quad-GPU CrossFireX™ Technology - 1 x PCI Express 3.0/2.0 x16 slot (yellow, at x16 mode) - 1 x PCI Express 2.0 x16 slot (dark brown, max. at x4 mode, compatible with PCIe x1 and x4 devices) - 2 x PCI Express 2.0 x1 slots - 3 x PCI slots</p>
Expansion Slots	<p>Intel® Z87 Express Chipset - 6 x Serial ATA 6.0Gb/s connectors (yellow) with RAID 0, 1, 5, 10 and Intel® Rapid Storage Technology 12 support - Supports Intel® Dynamic Storage Accelerator Technology, Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology* * These functions will work depending on the CPU installed.</p>
Storage	<p>Realtek® RTL8111GR Gigabit LAN controller</p>
LAN	<p>Realtek ALC887 8-Channel High Definition Audio CODEC - Supports Jack-Detection, Multi-streaming and Front Panel Jack-Retasking</p>
Audio	<p>Intel® Z87 Express Chipset supports ASUS USB 3.0 Boost - 2 x USB 3.0/2.0 ports at mid-board for front panel support - 2 x USB 3.0/2.0 ports at rear panel (blue) Intel® Z87 Express Chipset - 10 x USB 2.0/1.1 ports (6 ports at mid-board, 4 ports at the rear panel)</p>
USB	<p>ASUS 5X PROTECTION - 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 durability. ASUS DIGI+VRM - Digital Power Control: Digital Power Design for CPU - ASUS 4 Phase Power Design - ASUS CPU power utility ASUS DRAM Fuse - Enhanced DRAM overcurrent protection and short circuit damage prevention ASUS ESD Guards - Strong ESD protection for extended component lifespan ASUS All 5K-Hour 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 Turbo V - ASUS GPU Boost - ASUS Network iControl featuring instant network bandwidth domination for top network program in use - ASUS USB 3.0 Boost featuring speedy USB 3.0 transmission - ASUS Disk Unlocker featuring 3TB + HDD support - ASUS AI Suite 3 - Anti Surge ASUS O-Design - ASUS O-Slot ASUS Quiet Thermal Solution - ASUS Fanless Design: Stylish Heatsink and MOS Heatsink solution - ASUS Fan Xpert 2 featuring Fan Auto Tuning function for optimized speed control, providing an exclusive tailored fan speed setting for each fan. ASUS EZ DIY - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2</p>
ASUS Unique Features	<p>Precision Tweaker 2: - vCore: Adjustable CPU voltage at 0.001V increment - vCCIN: Adjustable CPU Input voltage at 0.01V increment - iGPU: Adjustable CPU Graphics voltage at 0.001V increment - vCCSA: Adjustable CPU System Agent voltage at 0.001V increment - vCCIO: Adjustable Analog and Digital I/O voltage at 0.001V increment - vDRAM Bus: 191-step Memory voltage control - vPCH: 191-step Chipset voltage control SFS (Stepless Frequency Selection) - BCLK/PCIE frequency tuning from 80MHz up to 300MHz at 0.1MHz increment Overclocking Protection:</p>
ASUS Exclusive Overclocking Features	

	- ASUS C.P.R. (CPU Parameter Recall)
Back Panel I/O Ports	1 x PS/2 keyboard port 1 x PS/2 mouse port 1 x HDMI port 1 x DVI port 1 x D-Sub port 1 x LAN (RJ45) port 2 x USB 3.0/2.0 ports 4 x USB 2.0/1.1 ports 3-jack 8-channel audio I/O ports
Internal I/O Connectors	1 x 19-pin USB 3.0/2.0 connector supports additional 2 USB 3.0/2.0 port 3 x USB 2.0/1.1 connectors support additional 6 USB 2.0/1.1 ports 1 x System panel connector 1 x S/PDIF Out connector 1 x Front panel audio connector (AAFP) 6 x SATA 6.0 Gb/s connectors (yellow) 1 x CPU fan connector (4-pin) 2 x Chassis fan connectors (4-pin) 1 x COM connector 1 x 24-pin EATX Power connector 1 x 8-pin EATX 12V Power connector 1 x Clear CMOS jumper
BIOS features	64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMi2.0, WfM2.0, SM BIOS 2.7, ACPI 4.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified Log, F12 PrintScreen Function, F3 Shortcut Function and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMi 2.0, WOL by PME, PXE
Accessories	2 x Serial ATA 6.0Gb/s cables 1 x User Manual 1 x I/O Shield 1 x Support DVD
Support DVD	Drivers ASUS Utilities EZ Update Anti-virus software (OEM version)
Form Factor	ATX Form Factor, 12.0"x 8.2" (30.5cm x 20.8cm)