



P8Z77-V LK Ultimate Z77 platform with precise digital power design and superior graphics performance

- DIGI+ VRM Digital Power Design
- USB 3.0 Boost - Faster USB 3.0 Transmission with UASP(170%)
- Network iControl - Real-time Network Bandwidth Control
- LucidLogix® Virtu Universal MVP™ - Up to 60% Hybrid Graphics Boost!
- Quad-GPU SLI and Quad-GPU/3-Way CrossFireX Support!



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CPU, Chipset and Graphics Features

LGA1155 Intel® 3rd/2nd Generation Processors Ready

This motherboard supports LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors in the LGA1155 package, with iGPU, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 3.0/2.0 lanes. This provides great graphics performance. LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors are among the most powerful and energy efficient CPUs in the world.



Intel® Z77 Express Chipset

The Intel® Z77 Express Chipset is a single-chipset design to support LGA1155 socket for 3rd generation Intel® Core™ processor-based platform and 2nd Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z77 chipset provides 4 USB 3.0 ports for 10 times faster data retrieval speed. Moreover, Intel® Z77 Express Chipset can also enable iGPU function, letting users enjoy the latest Intel® integrated graphic performance.



Intel® Smart Response Technology

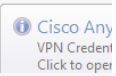
SSD Speed with HDD Capacity

Intel® Smart Response Technology boosts overall system performance. It uses an installed fast SSD (min 18.6GB available capacity required) as a cache for frequently accessed data. Key benefits include reduced load and wait times, and lower power consumption through the elimination of unnecessary hard drive spin. This technology combines SSD performance with hard drive capacity, operating up to 6X faster than a hard drive-only system.



Especificaciones

CPU	Intel® Socket 1155 for 3 rd /2 nd 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 * Refer to www.asus.com for CPU support list
Chipset	Intel® Z77
Memory	4 x DIMM, Max. 32GB, DDR3 2400(O.C.)/2200(O.C.)/2133(O.C.)/2000(O.C.)/1866(O.C.)/1800(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.
Graphic	Integrated Graphics Processor Multi-VGA output support : HDMI/DVI/RGB/DisplayPort ports - Supports HDMI with max. resolution 1920 x 1200 @ 60 Hz - Supports DVI with max. resolution 1920 x 1200 @ 60 Hz - Supports RGB with max. resolution 2048 x 1536 @ 75 Hz - Supports DisplayPort with max. resolution 2560 x 1600 @ 60 Hz Maximum shared memory of 1696 MB Supports Intel® HD Graphics
Multi-GPU Support	Supports NVIDIA® Quad-GPU SLI™ Technology Supports AMD Quad-GPU CrossFireX™ Technology *1 Supports AMD 3-Way CrossFireX™ Technology Supports LucidLogix® Virtu™ MVP Technology *2
Expansion Slots	2 x PCIe 3.0/2.0 x16 (x16 or dual x8) *3 1 x PCIe 2.0 x16 (x4 mode, black) *4 2 x PCIe 2.0 x1 2 x PCI
Storage	Intel® Z77 chipset : 2 x SATA 6Gb/s port(s), gray 4 x SATA 3Gb/s port(s), blue Support Raid 0, 1, 5, 10

LAN	Realtek® 8111F, 1 x Gigabit LAN Controller(s)
Audio	Realtek® ALC892 8-Channel High Definition Audio CODEC - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
USB Ports	Intel® Z77 chipset : *6 4 x USB 3.0 port(s) (2 at back panel, blue, 2 at mid-board) Intel® Z77 chipset : 10 x USB 2.0 port(s) (2 at back panel, black, 8 at mid-board) ASMedia® USB 3.0 controller : *6 2 x USB 3.0 port(s) (2 at back panel, blue)
Overclocking Features	Overclocking Protection : - ASUS C.P.R.(CPU Parameter Recall)
Special Features	ASUS EPU : - EPU - EPU switch ASUS Digital Power Design : - Industry leading 4 + 1 + 1 Phase Power Design - ASUS DIGI+ VRM Utility TurboV GPU Boost ASUS Exclusive Features : - MemOK! - AI Suite II - Ai Charger+ - Anti-Surge - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - Network iControl - USB 3.0 Boost - Disk Unlocker ASUS Quiet Thermal Solution : - Stylish Fanless Design Heat-sink solution & MOS Heatsink - ASUS Fan Xpert+ ASUS EZ DIY : - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 
	100% All High-quality Conductive Polymer Capacitors
Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s) 1 x DVI 1 x DisplayPort 1 x HDMI 1 x LAN (RJ45) port(s) 4 x USB 3.0 2 x USB 2.0 1 x Optical S/PDIF out 6 x Audio jack(s)
Internal I/O Ports	1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) 4 x USB 2.0 connector(s) support(s) additional 8 USB 2.0 port(s) 1 x COM port(s) connector(s) 2 x SATA 6Gb/s connector(s) 4 x SATA 3Gb/s connector(s) 1 x CPU Fan connector(s) (4 -pin) 3 x Chassis Fan connector(s) (4 -pin) 1 x S/PDIF out header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x System panel(s) 1 x MemOK! button(s) 1 x EPU switch(es) 1 x GPU Boost switch(es) 1 x Clear CMOS jumper(s)
Accessories	User's manual I/O Shield 2 x SATA 6Gb/s cable(s) 1 x SLI bridge(s)
BIOS	64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.7, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, F12 PrintScreen, F3 Shortcut Function and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE
Support Disc	Drivers ASUS Utilities ASUS Update Anti-virus software (OEM version)
Form Factor	ATX Form Factor 12 inch x 8.8 inch (30.5 cm x 22.4 cm)
Note	*1: Disable PCIe x1_2 slots and manual set the PCIe x16_3 to x4 mode in BIOS when configure CrossFire™ with dual graphics cards. *2: LucidLogix Virtu MVP supports Windows 7 operating systems. *3: PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors. *4: The PCIe x16_3 slot shares bandwidth with PCIe x1_2 slot. The default setting is x2 mode. Go to the BIOS setup to change the settings. *5: Supports on Intel® Core™ processor family with Windows 7 operating systems. *6-1: The USB 3.0 ports only support Windows® 7 or later versions. *6-2: Supports ASUS USB 3.0 Boost UASP Mode. *7: Due to Intel® chipset limitation, P8Z77, P8H77 and P8B75 series motherboards do not support Windows® Vista operating system.

P8Z77-V LK

CPU	Desde PCB	Desde BIOS	Nota
Core i3-2100 (3.1G,L3:3M,iGPU,2C,rev.Q0)	ALL	0210 (GO>>)	
Core i3-2100T (2.5G,L3:3M,iGPU,2C,rev.Q0)	ALL	0210 (GO>>)	
Core i3-2105 (3.1G,L3:3M,iGPU,2C,rev.D2)	ALL	0210 (GO>>)	
Core i3-2120 (3.3G,L3:3M,iGPU,2C,rev.Q0)	ALL	0210 (GO>>)	
Core i3-2120T (2.6G,L3:3M,iGPU,2C)	ALL	0210 (GO>>)	
Core i3-2125 (3.3G,L3:3M,iGPU,2C)	ALL	0210 (GO>>)	
Core i3-2130 (3.4G,L3:3M,iGPU,2C)	ALL	0210 (GO>>)	
Core i3-3210 (3.2G,L3:3M,iGPU,GT1,55W,2C,rev.P0)	ALL	0904 (GO>>)	
Core i3-3220 (3.3G,L3:3M,iGPU,2C,rev.E1)	ALL	0404 (GO>>)	
Core i3-3220 (3.3G,L3:3M,iGPU,2C,rev.L1)	ALL	0404 (GO>>)	
Core i3-3220 (3.3G,L3:3M,iGPU,2C,rev.N0)	ALL	0404 (GO>>)	
Core i3-3220 (3.3G,L3:3M,iGPU,2C,rev.P0)	ALL	0404 (GO>>)	

Lista completa:

http://mx.asus.com/Motherboards/Intel_Socket_1155/P8Z77V_LK/#CPUS