



## Maximus IV Extreme-Z The Best Overclocking Experience on Intel Z68-based board

- Mem TweakIt: Dynamic timing adjustments, DRAM efficiency gauge
- ROG Connect: Plug and Overclock - Tweak it the hardcore way!
- ROG iDirect : Tune your PC from your iPhone or iPad now!
- RC Bluetooth: Smashes through all the barriers of conventional overclocking !
- Extreme Engine Digi+: Powerful combination of analog and digital design elements
- USB BIOS Flashback: No worry of BIOS crash anytime!



## The Best Overclocking Experience on Intel Z68 with ROG Motherboard

The Republic of Gamers consists only the best of the best. We offer the best hardware engineering, the fastest performance, the most innovating ideas, and we welcome the best gamers to join in.

In the Republic of Gamers, mercy rules are only for the weak, and bragging rights means everything. We believe in making statements and we excel in competitions. If your character matches our trait, then join the elite club, make your presence felt, in the Republic of Gamers.



### CPU Feature

#### LGA1155 socket for 2nd Generation Intel® Core™ i7/Core™ i5/Core™ i3 Processors

This motherboard supports the latest Intel® Core™ i3/Core™ i5/Core™ i7 2nd generation processors in the LGA1155 package, with memory and PCI Express controllers integrated to support 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 2.0 lanes. This provides great graphics performance. Intel® Core™ i3/Core™ i5/Core™ i7 2nd generation processors are among the most powerful and energy efficient CPUs in the world.



### Chipset Features

#### Intel® Z68 Express Chipset

The Intel® Z68 Express Chipset is a single-chipset design to support socket 1155 Intel® second generation Core™ i7/Core™ i5/Core™ i3 processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z68 chipset provides 2 SATA 6Gb/s and 4 SATA 3Gb/s ports for faster data retrieval at double the bandwidth of current bus systems. Moreover, Intel® Z68 Express Chipset also supports iGPU function, letting users enjoy the latest Intel integrated graphic performance.



#### Intel® Smart Response Technology

##### Faster Access, Bigger Storage

Intel® Smart Response Technology boosts overall system performance. It uses an installed fast SSD (min 18.6GB available) as a cache for frequently accessed operations, speeding up hard drive/main memory interaction. Key benefits are expedited hard drive speeds, reduced load and wait times and maximized storage utilization. Power consumption also goes down by reducing unnecessary hard drive spin, an important part of Green ASUS eco-friendly computing.

### Multi-GPU support

#### Lucid Virtu

Enjoy optimal onboard graphics and discrete GPU's performance by dynamic switching!

Lucid Virtu is the GPU virtualization software along with 2nd generation Intel® Core processor featuring like Intel Quick Sync to enable an all-inclusive media platform and discrete GPUs coming with high-end DirectX 11 3D, anti-aliasing and performance features to get the thrills in games. Ultimately, users can enjoy optimal simultaneous performance in 3D gaming and video functions like transcoding and HD playback without having to manually change settings

#### SLI/CrossFireX On-Demand

##### Why choose when you can have both?

SLI or CrossFireX? Fret no longer because with the ROG Maximus IV Extreme-Z, you'll be able to run both multi-GPU setups. The board features SLI/CrossFireX on Demand technology, supporting SLI or CrossFireX configuration. Whichever path you take, you can be assured of jaw-dropping graphics at a level previously unseen.



between GPUs.

\* ASUS Maximus IV Extreme-Z motherboards retain iGPU accessibility alongside native LucidLogix® Virtu™ support for auto switching between integrated graphics and discrete graphics cards. This enables full use of Sandy Bridge iGPU features for improved media performance regardless of whether you use onboard or add-on VGA output.

## ROG Extreme OC Features

### ROG Connect

#### Plug and Overclock - Tweak it the hardcore way!

Monitor the status of your desktop PC and tweak its parameters in real-time via a notebook—just like a race car engineer—with ROG Connect. ROG Connect links your main system to a notebook through a USB cable, allowing you to view real-time POST code and hardware status readouts on your notebook, as well as make on-the-fly parameter adjustments at a purely hardware level.



### ROG iDirect

#### Tune your PC from your iPhone or iPad now!

Still overclocking your PC the old-fashioned way? Let ROG iDirect bring you a whole new tweaking experience right on your iPhone or iPad! Thanks to the Bluetooth card that comes with select ASUS ROG motherboards, you can monitor your PC and tweak parameters such as voltages and frequencies in real time wirelessly from your iPhone or iPad!



### RC Bluetooth

#### Smashes through all the barriers of conventional overclocking !

Still overclocking in old-fashioned way? Let RC Bluetooth bring you the whole new idea of how to do! Just simply push the button from the Back I/O on the RC Bluetooth card, overclockers can real-time monitor the desktop PC system status & tweak its parameters - such as voltages and frequency on the fly. When users want to use ordinary bluetooth functions, just simply push the button once again & enjoy all the wireless convenience brought from RC Bluetooth.



### USB BIOS Flashback

#### Refresh the BIOS can never be that easy

USB BIOS Flashback must be the most convenient way to flash BIOS ever! It allows overclockers to try their BIOS with the simplest way one can imagine. No need to enter the BIOS or the operating system, just plug the thumb drive into the ROG Connect port & push the ROG Connect button for 2 seconds, BIOS would be automatically flashed under standby power. It's no doubt that USB BIOS Flashback gives overclockers the ultimate convenience!



### Extreme Engine Digi+

#### Powerful combination of analog and digital design elements

Extreme Engine Digi+ equipped with high performance digital VRM design can easily achieve the ultimate performance with adjustable CPU PWM frequency. It expedites heat dissipation and achieves better electric conduction keeping critical components reliable. Now you'll be able to push your spanking new Intel CPU to the limit, hitting benchmark scores that others only dream of. Extreme Engine Digi+ balances the need for voltage and the desire for rock solid performance to bring the ultimate user experience.



### BIOS Flashback

#### Two BIOS ROM. Two BIOS settings. Twice the overclocking flexibility.

Overclocker's prayer to have BIOS flexibility is answered! With the new BIOS Flashback, PC enthusiasts can overclock with even more confidence. BIOS Flashback gives overclockers the ability to save two versions of the BIOS simultaneously. Very much like the "SaveGame" function, one BIOS can be used for the overclocking adventure, while the other BIOS is to be stored with any previous version. BIOS Flashback brings the ultimate convenience to overclockers!



## ROG Rich Bundled

### 3DMark® Vantage Advanced Edition

#### The gamers' benchmark

3DMarkVantage is the new industry standard PC gaming performance benchmark from Futuremark, newly designed for Windows Vista and DirectX10. It includes two new graphics tests, two new CPU tests, several new feature tests, and support for the latest hardware. 3DMark® Vantage is based on a completely new rendering engine, developed specifically to take full advantage of DirectX10, the new graphics API from Microsoft.



### Kaspersky® Anti-Virus

#### The best protection from viruses and spyware

Kaspersky® Anti-Virus Personal offers premium antivirus protection for individual users and home offices. It is based on advanced antivirus technologies. The product incorporates the Kaspersky® Anti-Virus engine, which is renowned for malicious program detection rates that are among the industry's highest.



### Mem Tweaktl

#### Dynamic timing adjustments, DRAM efficiency gauge

When changing DRAM settings in BIOS, it always takes time for the system to reboot. Worry no more! With Mem Tweaktl, you can do DRAM tuning in real-time, view your DRAM efficiency score, and upload and share your ranking online.



### ROG CPU-Z

#### Whole new design of CPU-Z

ROG CPU-Z is a customized ROG version authorized by CPUID. It has the same functionality and credibility as the original version, with a unique design. Use the whole new look of ROG CPU-Z to truly report your CPU related information and your uniqueness.



## Other Features

### Dual Intel Gigabit LAN

#### Experience the fast network connectivity!

The LAN solution from Intel has been long known to have a better throughput, lower CPU utilization as well as better stability. With



the dual Intel Gigabit LAN solutions onboard, the ultimate network experience can therefore be delivered to its users like never before.

## Specifications

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|-----------------------|--|
| CPU                   | Intel® Socket 1155 for 2nd Generation Core™ i7/Core™ i5/Core™ i3 Processors<br>Supports Intel® 32 nm CPU<br>Supports Intel® Turbo Boost Technology 2.0<br>* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.<br>* Refer to <a href="http://www.asus.com">www.asus.com</a> for CPU support list  |
| Chipset               | Intel® Z68   |
| Memory                | 4 x DIMM, Max. 32GB, DDR3 2200(O.C.)/1866(O.C.)/1600/1333 Hz Non-ECC, Un-buffered Memory<br>Dual Channel Memory Architecture<br>Supports Intel® Extreme Memory Profile (XMP)<br>* According to Intel® SPEC, the Max. 32GB memory capacity can be supported with DIMMs of 8GB (or above). ASUS will update QVL once the DIMMs are available on the market.<br>* Refer to <a href="http://www.asus.com">www.asus.com</a> or user manual for the Memory QVL (Qualified Vendors Lists).<br>* Due to CPU behavior, DDR3 2200/2000/1800 MHz memory module will run at DDR3 2133/1866/1600 MHz frequency as default.            |
| Multi-GPU Support     | Supports NVIDIA® 3-Way SLI™ Technology<br>Supports AMD CrossFireX™ Technology  |
| Expansion Slots       | 4 x PCIe 2.0 x16 (x16 or dual x8 or x8, x16, x16)<br>1 x PCIe 2.0 x4<br>1 x PCIe 2.0 x1  |
| Storage               | <b>Intel® Z68 chipset</b> : *1<br>2 x SATA 6Gb/s port(s), red<br>4 x SATA 3Gb/s port(s), gray<br>Support Raid 0, 1, 5, 10<br>Support Intel® Smart Response Technology<br><b>Marvell® PCIe 9182 controller</b> : *1<br>2 x SATA 6Gb/s port(s), red<br><b>JMicron® JMB362 controller</b> : *1<br>2 x eSATA 3Gb/s port(s), red  |
| LAN                   | Intel®, 2 x Gigabit LAN Controller(s)  |
| Bluetooth             | Bluetooth V2.1+EDR<br>RC Bluetooth On/Off Switch   |
| Audio                 | Realtek® ALC 889 8-Channel High Definition Audio CODEC<br>- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking<br><b>Audio Feature</b> :<br>- Optical S/PDIF out port(s) at back panel   |
| USB Ports             | <b>NEC® USB 3.0 controller</b> : *2<br>8 x USB 3.0 port(s) (6 at back panel, blue, 2 at mid-board)<br><b>NEC® USB 3.0 controller</b> :<br>2 x USB 3.0 port(s) (2 at back panel, blue)<br><b>Intel® Z68 chipset</b> :<br>9 x USB 2.0 port(s) (1 at back panel, black, 8 at mid-board)   |
| Overclocking Features | <b>ROG Connect</b><br><b>RC Bluetooth</b> :<br>- RC TweakIt<br><b>ROG iDirect</b><br><b>Extreme Engine Digi+</b> :<br>- 8 -phase CPU power design + 4 -phase iGPU power design<br>- 3 -phase Memory power design<br>- ML Caps on CPU respectively<br><b>Mem TweakIt</b><br><b>ROG Extreme OC kit</b> :<br>- LN2 Mode<br>- PCIe x16 Lane Switch<br>- Debug LED<br>- Q Reset<br><b>ProBelt</b><br><b>UEFI BIOS features</b> :<br>- ROG BIOS Print<br>- GPU.DIMM Post<br>- CPU Socket Monitor<br><b>iROG</b><br><b>Extreme Tweaker</b><br><b>Loadline Calibration</b><br><b>BIOS Flashback</b><br><b>USB BIOS Flashback</b> |

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| Special Features   | <p><b>Overclocking Protection :</b></p> <ul style="list-style-type: none"> <li>- COP EX (Component Overheat Protection - EX)</li> <li>- Voltminder LED</li> <li>- ASUS C.P.R.(CPU Parameter Recall)</li> </ul> <hr/> <p><b>ASUS TurboV EVO :</b></p> <ul style="list-style-type: none"> <li>- CPU Level Up</li> </ul> <p><b>ASUS Exclusive Features :</b></p> <ul style="list-style-type: none"> <li>- MemOK!</li> <li>- Onboard Button : Power/Reset/Clr CMOS (at back IO)</li> </ul> <p><b>ASUS Quiet Thermal Solution :</b></p> <ul style="list-style-type: none"> <li>- ASUS Q-Fan Plus</li> <li>- ASUS Fan Xpert</li> <li>- ASUS Q-Fan</li> </ul> <p><b>ASUS EZ DIY :</b></p> <ul style="list-style-type: none"> <li>- ASUS Q-Shield</li> <li>- ASUS O.C. Profile</li> <li>- ASUS CrashFree BIOS 3</li> <li>- ASUS EZ Flash 2</li> <li>- ASUS MyLogo 2</li> </ul> <p><b>ASUS Q-Design :</b></p> <ul style="list-style-type: none"> <li>- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)</li> <li>- ASUS Q-Slot</li> <li>- ASUS Q-DIMM</li> <li>- ASUS Q-Connector</li> </ul>   |
| Back I/O Ports     | <ul style="list-style-type: none"> <li>1 x PS/2 keyboard/mouse combo port(s)</li> <li>2 x eSATA 3Gb/s</li> <li>2 x LAN (RJ45) port(s)</li> <li>8 x USB 3.0</li> <li>1 x USB 2.0 (white port can be switched to ROG Connect)</li> <li>1 x Optical S/PDIF out</li> <li>6 x Audio jack(s)</li> <li>1 x Clear CMOS button(s)</li> <li>1 x ROG Connect On/ Off switch(es)</li> <li>1 x RC Bluetooth switch(es)</li> </ul>  |
| Internal I/O Ports | <ul style="list-style-type: none"> <li>1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s)</li> <li>4 x USB 2.0 connector(s) support(s) additional 8 USB 2.0 port(s)</li> <li>4 x SATA 6Gb/s connector(s)</li> <li>4 x SATA 3Gb/s connector(s)</li> <li>1 x CPU Fan connector(s)</li> <li>3 x Chassis Fan connector(s)</li> <li>1 x Power Fan connector(s)</li> <li>3 x Optional Fan connector(s)</li> <li>1 x S/PDIF out header(s)</li> <li>1 x 24-pin EATX Power connector(s)</li> <li>1 x 8-pin ATX 12V Power connector(s)</li> <li>1 x Front panel audio connector(s) (AAFP)</li> <li>1 x System panel(s)</li> <li>7 x ProbelT Measurement Points</li> <li>3 x Thermal sensor connector(s)</li> <li>1 x RC Bluetooth header(s)</li> <li>1 x LN2 Mode header(s)</li> <li>1 x Q Reset switch(es)</li> <li>2 x EZ Plug connector(s) (4-pin Molex power connector)</li> <li>1 x Power-on button(s)</li> <li>1 x Reset button(s)</li> <li>1 x LN2 Mode switch(es)</li> <li>1 x Go Button(s)</li> <li>1 x BIOS Switch button(s)</li> <li>1 x ROG light connector(s)</li> <li>1 x Clear CMOS jumper(s)</li> </ul> |
| Accessories        | <ul style="list-style-type: none"> <li>User's manual</li> <li>ROG Exclusive Feature Guide</li> <li>I/O Shield</li> <li>2 x SATA 3Gb/s cable(s)</li> <li>2 x SATA 6Gb/s cable(s)</li> <li>1 x 3-Way SLI bridge(s)</li> <li>1 x SLI bridge(s)</li> <li>1 x CrossFire cable(s)</li> <li>1 x Q-connector(s) (2 in 1)</li> <li>1 x 2-port USB 2.0 module(s)</li> <li>1 x ROG Connect cable(s)</li> <li>1 x ProbelT cable set(s)</li> <li>1 x Thermal sensor cable pack(s)</li> <li>1 x Cable ties pack(s)</li> <li>1 x ROG theme label(s)</li> <li>1 x 12 in 1 ROG Cable Label(s)</li> <li>1 x RC Bluetooth card(s)</li> </ul>   |

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| BIOS          | 64Mb Flash ROM, EFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI2.0a, Multi-Language BIOS  |
| Manageability | WfM2.0, DMI2.0, WOL by PME, WOR by PME, PXE  |
| Support Disc  | Support DVD:<br>- Drivers and applications<br>* ASUS AI Suite II<br>* ROG CPU-Z<br>* 3DMark Vantage<br>* ROG Mem Tweakt Utility<br>* Kaspersky® Anti-Virus 1-year license<br>* ASUS AI Charger |
| Form Factor   | Extended ATX Form Factor<br>12 inch x 10.6 inch ( 30.5 cm x 26.9 cm )  |
| Note          | *1: These SATA ports are for data hard drivers only. ATAPI devices are not supported.<br>*2: With 2 x VIA SuperSpeed USB hub controllers.  |