



Rampage II Extreme The Ultimate Overclocking Board for Tweaking Fun

- Intel® Core™i7 Processor Ready
- Intel® X58/ICH10R
- Triple-channel, DDR3 2000(O.C) Support
- TweakIt
- Probelt
- Extreme Engine with ML Cap Design
- SLI/CrossFire On-demand
- SupremeFX X-Fi
- BIOS Flashback



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 & Chipset Features

LGA1366 Intel® Core™i7 Processor support

This motherboard supports the latest Intel® Bloomfield processors in LGA1366 package which has memory controller integrated to support 3-channel (6 DIMMs) DDR3 memory. Support Intel(R) QuickPath Interconnect (QPI) with system bus up to 6.4GT/s and a max bandwidth of up to 25.6GB/s. Intel® Bloomfield processor is one of the most powerful and energy efficient CPU in the world.



Intel® X58 Chipset

The Intel® X58 Express Chipset is the latest chipset designed to support latest Intel® Core™ i7 Processors and Intel's next generation system interconnect interface, Intel® QuickPath Interconnect (QPI), providing improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. It also supports up to 36 PCI Express 2.0 lanes providing better graphics performance.



PCIe 2.0

Double Speed; Double Bandwidth

This motherboard supports the latest PCIe 2.0 devices for double speed and bandwidth which enhances system performance.



Multi-GPU Technology

SLI/CrossFire On-Demand

Why choose when you can have both?

SLI or CrossFireX? Fret no longer because with the ROG Rampage II Extreme, you'll be able to run both multi-GPU setups. The board features



Memory Feature

Triple-Channel, DDR3 1800(O.C.) MHz

The motherboard supports DDR3 memory that features data transfer rates of 1800(O.C.)/1600(O.C.)/1333/1066 MHz to meet the higher bandwidth requirements of the latest



SLI/CrossFire on Demand technology, supporting up to three graphics cards in a 3-Way SLI or CrossFireX configuration. Whichever path you take, you can be assured of jaw-dropping graphics at a level previously unseen.

operation system, 3D graphics, multimedia, and Internet applications. The triple-channel DDR3 architecture triple the bandwidth of your system memory to boost system performance, eliminating bottlenecks with peak bandwidths of up to 43.2 GB/s.

ROG Exclusive Features

TweakIT

Hardcore OV with finger tweaking fun!

TweakIt is designed for control freaks. Following the success of the Extreme Tweaker overclocking feature, ASUS has engineered TweakIt to give users flexible overclocking control even when running benchmark programs! The joystick-like control puts every overclocking option in the user's fingertips, allowing the users performance optimizations options during game play to gain the competitive edge. TweakIt brings a brand new dimension to the game of overclocking and benchmarking.



Extreme Engine with ML Cap Design

Say hello to max headroom

Overclocking is all about headroom and for this motherboard has the Extreme Engine—a next-generation dynamic multi-phase power management system equipped with high performance Multilayer type Polymer Capacitors (ML Caps). Extreme Engine ensures a stable power supply during overvoltage by lowering Equivalent Series Resistance (ESR), keeping critical components such as the processor, system memory and the Northbridge reliable. This means you'll be able to push your spanking new Intel Core i7 CPU to the limit, hitting benchmark scores that others only dream of.



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!



Extreme Tweaker

One stop performance tuning shop

Extreme Tweakers is the one stop shop to fine-tune your system to optimal performance. No matter if you're looking for frequency adjustment, over-voltage options, or memory timing settings, they're all here!



COP EX

Maximum OC with confidence with burn proof protection to chipsets and GPU!

The COP EX allows overclockers to increase chipset voltages without the worries of overheating. It can also be used to monitor and save an overheating GPU. The COP EX allows more freedom and less constraint for maximum performance achievement.



Sound with Clarity

SupremeFX X-Fi

Listen with Absolute HD



ProBelt

Get all hands-on with hardware-based overclocking

ProBelt takes the guesswork out of locating the motherboard's measurement points, identifying them clearly in the form of eight sets of detection points so you'll know exactly where to get quick yet accurate readings using a multimeter.



iROG

Intelligent multiple control at hand

The iROG is a special IC which enables several ROG highlighted functions that gives users full disposal of the motherboard at any stage! This design allows advanced user control and management to be processed purely at a hardware level. iROG greatly increases fun during overclocking for PC enthusiasts and it offers system maintenance and management with more control and efficiency.



CPU Level Up

A Simple click for instant upgrade

Ever wish that you could have a more expansive CPU? Upgrade your CPU at no additional cost with ROG's CPU Level Up! Simply pick the processor you wanted to OC to, and the motherboard will do the rest!



See the new CPU speed and enjoy that performance instantly. Overclocking is never as easy as this.

Voltiminder LED

Friendly reminder on the intentional madness

In the pursuit of extreme performance, overvoltage adjustment is critical but risky. Acting as the "red zone" of a tachometer, the Voltiminder LED displays the voltage status for CPU, NB, SB, and Memory in a intuitive color-coded fashion. The voltiminder LED allows quick voltage monitoring for overclockers.



Loadline Calibration

Optimal power boost for extreme CPU overclocking!

Maintaining ample voltage support for the CPU is critical during overclocking. The Loadline Calibration ensures stable and optimal CPU voltage under heavy loading. It helps overclockers enjoy the motherboard's ultimate OC capabilities and benchmark scores.



Noise Filter

Eliminate background noise while recording



SupremeFX X-Fi delivers an excellent high definition audio experience to the gamers of ROG. The SupremeFX X-Fi features unique audio innovations for gamers to spot enemies in 3D environment during game play. SupremeFX X-Fi also provides gamers a special tool to emphasize human voices in games to help



This feature detects repetitive and stationary noises like computer fans, air conditioners, and other background noises then eliminates it in the incoming audio stream while recording.



make dialogues clearer and more audible.

ROG EZ DIY Features

External LCD Poster

Debug and read system problems with an new external look!

The new LCD Poster now posts critical POST information in an ever friendly and flexible external display. When system malfunction occurs, the LCD Poster automatically detects device failure and translates the errors on the LCD during POST.



EL I/O

Connect in the dark!

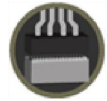
Today's users demand more than good performance—they demand more heart touching services like user-friendly features. The motherboard comes with the EL I/O, an impressive design that increases convenience in connecting devices on the back I/O. The cool EL lights up your I/O panel under your desk, in the dark, or in a LAN Party. No more jamming devices into the wrong connectors! when you're in the dark!



ASUS Q-Connector

Make connections quick and accurate

The Q-Connector allows you to connect or disconnect chassis front panel cables in one easy step with one complete module. This unique adapter eliminates the trouble of plugging in one cable at a time, making connection quick and accurate.



Onboard Switch

No more shorting pins or moving jumpers

With an easy press during overclock, this exclusive onboard switch allows gamer to effortlessly fine-tune the performance without having to short the pins or moving jumpers!



Q-Fan Plus

Optimized quietness and cooling for more devices!

The Q-Fan function automatically detects temperature and adjusts fan speed accordingly to achieve quiet and efficient cooling. With Q-Fan Plus, special temperature sensor cable is provided to detect temperature on any device. When used with a optional fans, you may activate Q-Fan function on up to 3 additional devices of your choice!



ASUS EPU-6 Engine

System Level Energy Saving

The new ASUS EPU - the world's first power saving engine, has been upgraded to a new 6 engine version, which provides total system power savings by detecting current PC loadings and intelligently moderating power in real-time. With auto phase switching for components (which includes the CPU, VGA card, memory, chipset, hard drives and CPU cooler/system fans), the EPU automatically provides the most appropriate power usage via intelligent acceleration and overclocking - helping save power and money.



Rich Software 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.



Specifications

CPU	Intel® Socket 1366 Core™ i7 Processor Extreme Edition/Core™ i7 Processor Processors Supports Intel® Dynamic Speed Technology * Refer to www.asus.com for Intel CPU support list
Chipset	Intel® X58 /ICH10R
System Bus	Up to 6400 MT/s with QuickPath Interconnection
Memory	6 x DIMM, Max. 24 GB, DDR3 2000(O.C.)/1800(O.C.)/1600(O.C.)/1333/1066 Non-ECC, Un-buffered Memory Triple channel memory architecture * Supports Intel® Extreme Memory Profile (XMP) **Due to Intel spec definition, DIMMs of DDR3-1333 or above are out of spec. Please refer to www.asus.com or user manual for the Memory QVL(Qualified Vendors List).
Expansion Slots	3 x PCIe 2.0 x16 support at x16, x8, x8, or dual x16 speed 2 x PCIe 2.0 x 1 (the PCIe1_1 (black) is compatible with audio slot) 1 x PCI 2.2
Multi-GPU Support	Support NVIDIA 3-Way SLI™ / ATI CrossFireX™ Technology * We recommend that you use full tower chassis for building a 3-Way SLI system.
Storage	Intel ICH10R controller 6 xSATA 3 Gb/s ports Intel Matrix Storage Technology Support RAID 0,1,5,10 JMicron® JMB363 PATA and SATA controller 1 xUltraDMA 133/100/66/33 for up to 2 PATA devices 1 xExternal SATA 3.0 Gb/s port (SATA On-the-Go) 1 xSATA 3.0 Gb/s port
LAN	Dual Gigabit LAN controllers, both featuring AI NET2 Support Teaming Technology
Audio	SupremeFX X-Fi Audio Card - ADI® AD2000B 8 -Channel High Definition Audio CODEC - EAX® Advanced™ HD 4.0 - X-Fi CMSS®-3D - X-Fi Crystalizer™ - Creative ALchemy - Supports 1 x S/PDIF out header - Supports Coaxial/Optical S/PDIF out ports on rear
IEEE 1394	2 x 1394a ports (1 port at back I/O, 1 port onboard)
USB	12 USB 2.0 ports (6 ports at mid-board, 6 ports at back panel)
Overclocking Features	Tweakt Probelt Extreme Engine with ML Cap - 16-phase CPU power - 3-phase QPI/DRAM power - 3-phase NB power - 3-phase Memory power - ML Caps on CPU, memory and NB respectively CPU Level Up

	<p>iROG Extreme Tweaker BIOS Flashback Loadline Calibration Intelligent overclocking tools: - AI Gear 4™ - ASUS AI Booster Utility - O.C Profile Overclocking Protection: - COP EX (Component Overheat Protection - EX) - Voltiminder LED - ASUS C.P.R.(CPU Parameter Recall)</p>
Special Features	<p>External LCD Poster Onboard Switches: Power / Reset / Clr CMOS (at rear) EL I/O Q-Fan Plus ROG BIOS Wallpaper ASUS EPU-6 Engine ASUS Q-Connector ASUS Fan Xpert ASUS EZ Flash 2 ASUS CrashFree BIOS 3 ASUS MyLogo3</p>
Back Panel I/O Ports	<p>1 x PS/2 Keyboard port(purple) 1 x External SATA port 2 x LAN (RJ45) port 6 x USB 2.0/1.1 ports 1 x IEEE1394a port 1 x Clr CMOS switch</p>
Internal I/O Connectors	<p>3 x USB connectors supports additional 6 USB 2.0 ports 1 x Floppy disk drive connector 1 x IDE connector 7 x SATA connectors 1 x IEEE 1394a connector 1 x Chassis Fan connector x 8-pin ATX 12V Power connector 24-pin ATX Power connector 1 x EL I/O Shield Connector 3 x thermal sensor connector 1 x En/Dis-able Clr CMOS connector System Panel 8 x Fan connectors: 1 x CPU / 1 x PWR / 3 x Chassis / 3 x Optional 8 x Probelt connectors 1 x LCD Poster connector 1 x BIOS FlashBack boot up selection header 1 x ROG light connector</p>
BIOS	<p>16 Mb Flash ROM AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.4, ACPI2.0a Multi-Language BIOS</p>
Manageability	<p>WOL by PME,WOR by PME,Chasis Intrusion,PXE</p>
Accessories	<p>Probelt Cable 3-Way SLI Cable SLI Cable ASUS Optional Fan SupremeFX X-Fi Audio Card External LCD Poster 3 in 1 ASUS Q-Connector Kit UltraDMA 133/100/66 cable SATA cables SATA power cables 2-port USB2.0 + IEEE 1394a module EL I/O Shield Thermal sensor cables Cable Ties User's manual</p>

Support DVD:
- Drivers and applications
Sound Blaster X-Fi Utility
Futuremark® 3DMark® Vantage Advanced Edition
Kaspersky® Anti-Virus
ASUS TurboV utility
ASUS PC Probe II
ASUS Update
ASUS AI Suite

Form Factor
ATX Form Factor
12 inch x 10.6 inch (30.5 cm x 26.9 cm)
* One inch greater than standard ATX form factor
