

Rampage Extreme

The Ultimate Overclocking Board for Tweaking Fun

- Intel® Core™2 Extreme / Core™2 Quad / Core™2 Duo / Pentium® Extreme / Pentium® D / Pentium® 4 Processors
- Intel® X48/ICH9R
- Dual-channel DDR3 2000(O.C.)/1800(O.C.)/1600/1333/1066/800 MHz
- Fusion Block System
- Extreme Engine
- TweakIt
- BIOS Flashback
- iROG
- SupremeFX X-Fi 8-ch Audio



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



■LGA775 Intel® Core™2 Processor Ready

This motherboard supports the latest Intel® Quad-core processors in LGA775 package. It's excellent for multi-tasking, multi-media and enthusiastic gamers with 1600/1333/1066 MHz FSB. Intel® Quad-core Processor is one of the most powerful CPU in the world.



■Intel® X48 Chipset

The Intel® X48 Express Chipset is the latest chipset designed to support the next generation 45nm CPU in high-end desktop and workstation platform; and up to 8GB of dual-channel DDR3 1600/1333/1066/800 MHz memory architecture. It also supports 1600/1333/1066/800 FSB (Front Side Bus), fully dual PCI Express x16 graphics and multi-core CPUs. With the specially included Intel® Fast Memory Access technology, available memory bandwidth usage is optimized and memory access latency is reduced- allowing faster memory speed.

■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.

Graphics Technology



■ATI CrossFireX Technology

ATI's CrossFireX boosts image quality along with rendering speed, eliminating the need to scale down screen resolutions to get the high image quality you want. CrossFire ignites with the higher antialiasing, anisotropic filtering, shading, and texture settings you desire. Adjust your display configurations, experiment with your advanced 3D settings, and check the effect with a real-time 3D-rendered preview within ATI's Catalyst™ Control Center to rule your CrossFireX system.

Memory Feature



■change to "Dual-Channel DDR3 2000(O.C.)/ 1800(O.C.)/ 1600 MHz

The motherboard supports DDR3 memory that features data transfer rates of 2000(O.C.)/1800(O.C.)/1600/1333/1066/800MHz to meet the higher bandwidth requirements of the latest operation system, 3D graphics, multimedia, and Internet applications. The dual-channel DDR3 architecture doubles the bandwidth of your system memory to boost system performance, eliminating bottlenecks with peak bandwidths of up to 17 GB/s. Furthermore, the supply voltage for the memory is reduced from 1.8 V for DDR2 to just 1.5 V for DDR3. This voltage reduction limits the power consumption and heat generation of DDR3 which makes it an ideal memory solution.

ROG Exclusive Features



■Fusion Block System

H2O ready: Water-cooling ready for optimal heat dissipation.

The Fusion Block System is a more efficient thermal solution than competing followers with complicated looks. It is a hybrid thermal design that combines the ROG's renowned heatpipe design with the additional ability to connect to a water cooling system. By taking the entire integrated solution into design consideration, with a single connection, user can enjoy exceptional thermal improvement to north bridge, south bridge, and even VRM. We also provide a super optional thermal kit that is used on NB and MOS to improve in heat dissipation. The Fusion Block System is the most versatile, the most efficient, and the most advanced thermal system there is on a motherboard.



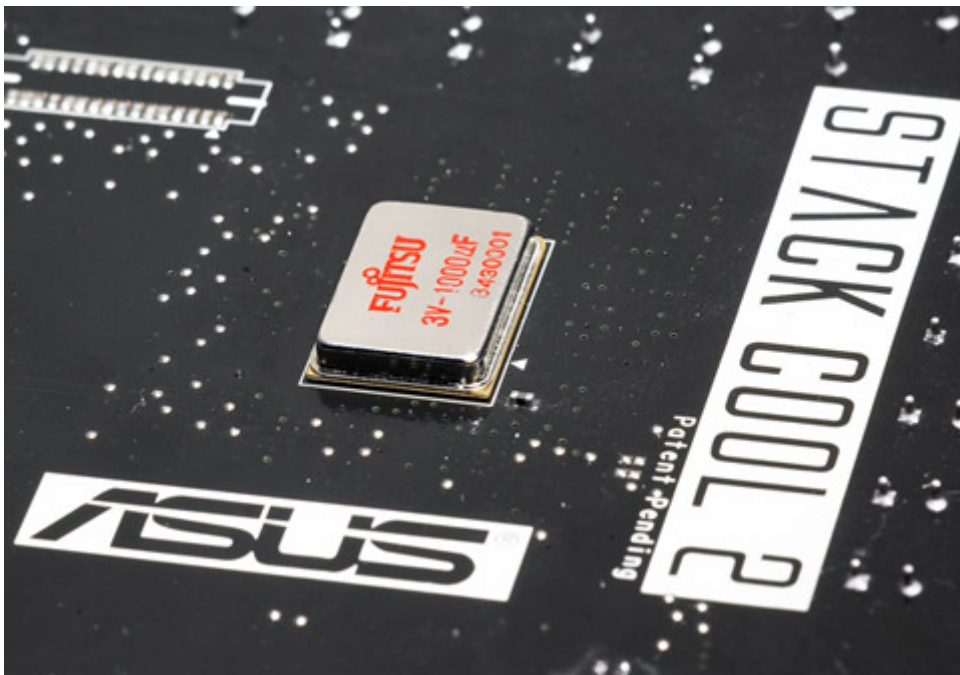
■ Extreme Engine

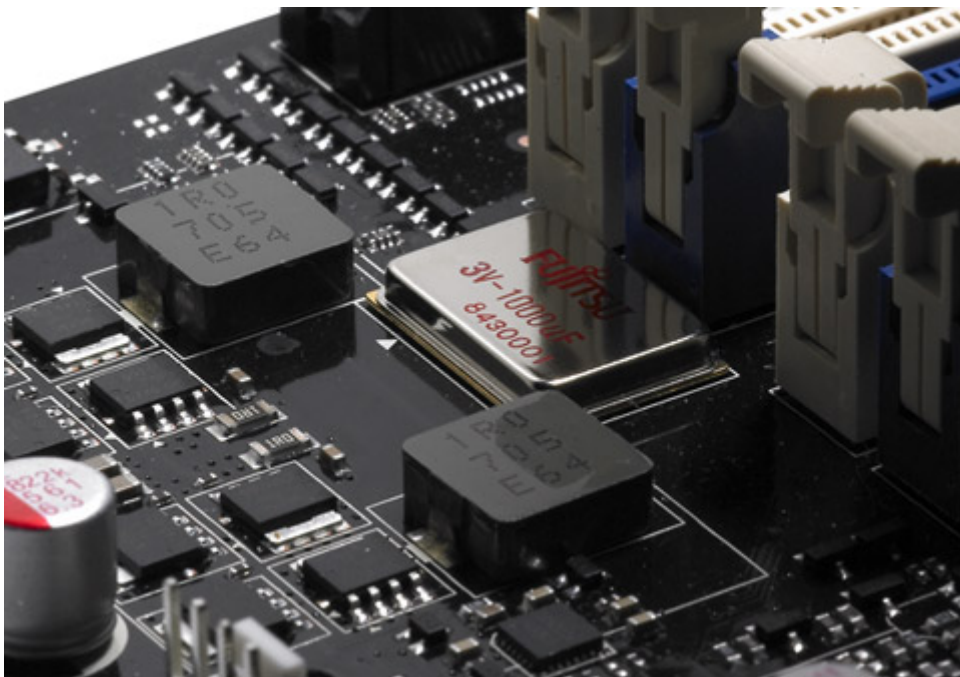
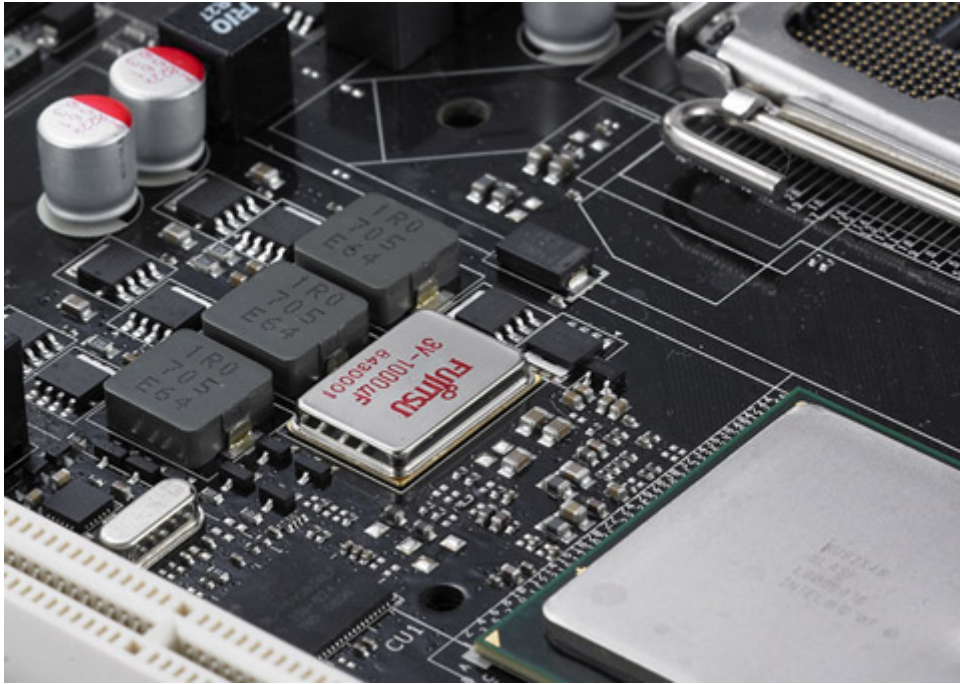
Next-generation dynamic multi-phase power management Maximum Overclocking

The Extreme Engine ensures stable power supply under the most demanding load to mission-critical components such as the processor, the system memory and the north bridge on the motherboard. The special power design of the Extreme Engine means users have the option to venture into high voltage options in the BIOS, allowing for even higher performance enhancements. The "Extreme" ROG motherboard with the Extreme Engine even comes armed with high-performance ML-Caps, ensuring extra edge during extreme overclocking.

Maximum Heat Dissipation

With the power efficiency as high as 96%, ASUS ROG motherboards with the Extreme Engine produce less energy loss and less heat. The intelligent power phase can be changed on the fly, yielding even more heat dissipation.





■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.



■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.



■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

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.

- 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.

Specification

CPU	Intel Socket 775 for Intel® Core™2 Extreme/Core™2 Quad/ Core™2 Duo/Pentium® dual-core/Celeron® dual-core /Celeron® Processors Support Intel® next generation 45nm Multi-Core CPU Compatible with Intel® 06/05B/05A processors * Refer to www.asus.com for Intel CPU support list
Chipset	Intel X48 / ICH9R Intel Fast Memory Access Technology
Front Side Bus	1600/1333/1066/800 MHz
Memory	4 x DIMM, Max. 8 GB, DDR3 2000(O.C.)/1800(O.C.)/1600/1333/1066/800 ECC, Non-ECC, Un-buffered Memory Dual Channel memory architecture *Overclock speed - Supports Intel® Extreme Memory Profile (XMP) - For the X.M.P. support, CPUs with FSB 1333 or above are recommended. - When installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended. - Refer to www.asus.com or this user manual for the Memory QVL(Qualified Vendors Lidts).
Expansion Slots	2 x PCIe 2.0 x16 , support at full x16, x16 speed 3 x PCIe x1 (the PCIe x1_1 (black) is compatible with audio slot) 2 x PCI 2.2
CrossFire	Support ATI CrossFire™X Technology graphics cards
Storage	Southbridge 6 xSATA 3 Gb/s ports Intel Matrix Storage Technology Support RAID 0,1,5,10 Marvell® 88SE6121 controller: 1 x UltraDMA 133/100/66/33 for up to 2 PATA devices 1 x External SATA 3.0 Gb/s port (SATA On-the-Go) Silicon Image Sil5723 controller: 2 x SATA 3.0 Gb/s port Supports RAID 0, 1
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	<p>Fusion Block System with optional thermal kit on MOS and NB</p> <p>Extreme Tweaker TweakIt Extreme Engine</p> <ul style="list-style-type: none"> - 16-phase CPU power design - 3-phase NB power design - 2-phase DDR3 power design - ML Caps on CPU, memory and NB respectively <p>Speeding HDD iROG</p> <p>BIOS Flashback Loadline Calibration</p> <p>Intelligent overclocking tools:</p> <ul style="list-style-type: none"> - CPU Level Up - Memory Level Up - AI Gear 3 + TM - ASUS AI Booster Utility - O.C Profile <p>Overclocking Protection:</p> <ul style="list-style-type: none"> - COP EX (Component Overheat Protection - EX) - Voltiminder LED - ASUS C.P.R.(CPU Parameter Recall)
Special Features	<p>External LCD Poster</p> <p>Onboard Switches: TweakIt / Power / Reset / Cls CMOS (at rear)</p> <p>EL I/O</p> <p>Q-Fan Plus</p> <p>ASUS EPU-6 Engine</p> <p>ASUS Q-Connector</p> <p>ASUS Fan Xpert</p> <p>ASUS EZ Flash 2</p> <p>ASUS CrashFree BIOS 3</p> <p>ASUS MyLogo3</p>
Back Panel I/O Ports	<p>1 x PS/2 Keyboard port(purple)</p> <p>1 x External SATA port</p> <p>2 x LAN (RJ45) port</p> <p>6 x USB 2.0/1.1 ports</p> <p>1 x IEEE1394a port</p> <p>1 x Clr CMOS switch</p>
Internal I/O Connectors	<p>3 x USB 2.0 connectors supports additional 6 USB 2.0 ports</p> <p>1 x Floppy disk drive connector</p> <p>1 x IDE connector for two devices</p> <p>6 x SATA connectors (Blue)</p> <p>2 x Speeding HDD SATA connectors (Black)</p> <p>8 x Fan connectors: 1 x CPU / 1 x PWR / 3 x Chassis / 3 x Optional</p> <p>3 x thermal sensor connectors</p> <p>1 x IEEE1394a connector</p> <p>1 x LCD Poster connector</p> <p>1 x EL I/O Shield connector</p> <p>1 x Chassis Intrusion connector</p> <p>24-pin ATX Power connector</p> <p>8-pin ATX 12V Power connector</p> <p>1 x En/Dis-able Clr CMOS slide switch</p> <p>System panel connector</p>
BIOS	<p>16 Mb Flash ROM</p> <p>DMI 2.0</p> <p>AMI BIOS</p>

	PnP WfM 2.0 SM BIOS 2.4 ACPI 2.0a Multi-language BIOS
Manageability	WOL by PME,WOR by PME,Chasis Intrusion,PXE
Accessories	Fusion Block System Accessory Optional Thermal Kit for NB and MOS DIY Pedestal ASUS Optional Fan SupremeFX X-Fi Audio Card External LCD Poster 3 in 1 ASUS Q-Connector Kit UltraDMA 133/100/66 cable Floppy disk drive 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
Support Disc	Drivers and applications ASUS PC Probe II ASUS Update ASUS AI Suite Sound Blaster X-Fi Utility Futuremark® 3DMark® 06 Advanced Edition Kaspersky® Anti-Virus
Form Factor	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x24.5 cm)

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