



## Specifications

Model	<b>Crosshair V Formula</b> World's best AMD gaming motherboard with 3-Way SLI/CrossFireX support
CPU	AMD AM3+ FX™/Phenom™ II/Athlon™ II/Sempron™ 100 Series Processors Supports AM3+ 32 nm CPU Supports CPU up to 8 cores Supports CPU up to 140 W AMD Cool 'n' Quiet™ Technology
Chipset	AMD 990FX/SB950 4 x DIMM, Max. 32GB, DDR3 2133(O.C.)/2000(O.C.)/1800(O.C.)/1600/1333/1066 Hz ECC, Non-ECC, Unbuffered Memory
Memory	Dual Channel Memory Architecture * Refer to <a href="http://www.asus.com">www.asus.com</a> or user manual for the Memory QVL (Qualified Vendors Lists). * Due to OS limitation, when installing total memory of 4GB capacity or more, Windows® 32-bit operation system may only recognize less than 3GB. Install a 64-bit Windows® OS when you want to install 4GB or more memory on the motherboard.
Multi-GPU Support	Supports NVIDIA® 3-Way SLI™ Technology Supports AMD 3-Way CrossFireX™ Technology
Expansion Slots	3 x PCIe 2.0 x16 (dual x16 or x16, x8, x8) 1 x PCIe 2.0 x16 (x4 mode) 1 x PCIe 2.0 x1 1 x PCI
Storage	<b>AMD SB950 controller :</b> 6 x SATA 6Gb/s port(s), red Support Raid 0, 1, 5, 10 <b>ASMedia® ASM1061 controller :</b> 1 x SATA 6Gb/s port(s), red 1 x eSATA 6Gb/s port(s), red
LAN	Intel®, 1 x Gigabit LAN Controller(s) SupremeFX X-Fi 2 built-in 8-Channel High Definition Audio CODEC - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking
Audio	<b>Audio Feature :</b> - X-Fi® Xtreme Fidelity™ - EAX® Advanced™ HD 5.0 - THX® TruStudio PRO™ - Creative ALchemy - Blu-ray audio layer Content Protection - Optical S/PDIF out port(s) at back panel
USB Ports	<b>ASMedia® USB 3.0 controller :</b> 6 x USB 3.0 port(s) (4 at back panel, blue, 2 at mid-board) <b>AMD SB950 controller :</b> 12 x USB 2.0 port(s) (8 at back panel, black+white, 4 at mid-board)
Overclocking Features	<b>ROG Connect :</b> - RC Diagram - RC Remote - RC Poster - GPU TweakIt <b>Extreme Engine Digi+ :</b> - 8 + 2 phase power design <b>UEFI BIOS features :</b> - ROG BIOS Print - GPU.DIMM Post <b>GameFirst</b> <b>iROG</b> <b>Extreme Tweaker</b> <b>Overclocking Protection :</b> - COP EX (Component Overheat Protection - EX) - Voltiminder LED - ASUS C.P.R.(CPU Parameter Recall)
Special Features	<b>ASUS TPU :</b> - CPU Level Up <b>Core Unlocker</b> <b>ASUS Exclusive Features :</b> - MemOK! - Ai Charger+ <b>ASUS Quiet Thermal Solution :</b> - ASUS Fan Xpert

	<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 EZ Flash 2</li> <li>- ASUS MyLogo 3</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-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>1 x eSATA 6Gb/s</li> <li>1 x LAN (RJ45) port(s)</li> <li>4 x USB 3.0</li> <li>8 x USB 2.0 (white port can be switched to ROG Connect)</li> <li>1 x Optical S/PDIF out</li> </ul>
Internal I/O Ports	<ul style="list-style-type: none"> <li>6 x Audio jack(s)</li> <li>1 x Clear CMOS button(s)</li> <li>1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s)</li> <li>2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)</li> <li>7 x SATA 6Gb/s connector(s)</li> <li>2 x CPU Fan connector(s)</li> <li>3 x Chassis 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 4-pin ATX 12V Power connector(s)</li> </ul>
Accessories	<ul style="list-style-type: none"> <li>1 x Front panel audio connector(s) (AAFP)</li> <li>1 x System panel(s)</li> <li>8 x Probel Measurement Points</li> <li>3 x Thermal sensor connector(s)</li> <li>1 x En/Dis-able Clr CMOS header(s)</li> <li>1 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 CPU Level Up button(s)</li> <li>1 x ROG Connect switch(es)</li> <li>1 x Go Button(s)</li> <li>User's manual</li> <li>I/O Shield</li> <li>6 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 ROG Connect cable(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> </ul>
BIOS	32Mb Flash ROM, UEFI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI2.0a, Multi-Language BIOS
Manageability	WOL by PME, WOR by PME, PXE
Support Disc	<ul style="list-style-type: none"> <li>Drivers</li> <li>Sound Blaster® X-Fi 2 Utility</li> <li>Kaspersky® Anti-Virus</li> <li>DAEMON Tools Pro Standard</li> <li>ROG CPU-Z</li> <li>ASUS Utilities</li> </ul>
Form Factor	<ul style="list-style-type: none"> <li>ATX Form Factor</li> <li>12 inch x 9.6 inch ( 30.5 cm x 24.4 cm )</li> </ul>

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.

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