



PHONE

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# MAXIMUS VII FORMULA

CPU	<p>Intel® Socket 1150 for the 5<sup>th</sup>/New 4<sup>th</sup>/4<sup>th</sup> Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors</p> <p>Supports Intel® 22 nm CPU</p> <p>Supports Intel® Turbo Boost Technology 2.0</p> <p>* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.</p> <p>* Refer to <a href="http://www.asus.com">www.asus.com</a> for CPU support list</p>
Chipset	Intel® Z97
Memory	<p>4 x DIMM, Max. 32GB, DDR3 3300(O.C.)/3200(O.C.)/3100(O.C.) /3000(O.C.)/2933(O.C.)/2800(O.C.)/2666(O.C.)/2400(O.C.)/2133(O.C.) /2000(O.C.)/1866(O.C.)/1600/1333 MHz Non-ECC, Un-buffered Memory</p> <p>Dual Channel Memory Architecture</p> <p>Supports Intel® Extreme Memory Profile (XMP)</p> <p>* Hyper DIMM support is subject to the physical characteristics of individual CPUs.</p> <p>* Refer to <a href="http://www.asus.com">www.asus.com</a> for the Memory QVL (Qualified Vendors Lists).</p>
Graphic	<p>Integrated Graphics Processor- Intel® HD Graphics support</p> <p>Multi-VGA output support : HDMI/DisplayPort 1.2 ports</p> <ul style="list-style-type: none"> <li>- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz</li> <li>- Supports DisplayPort with max. resolution 4096 x 2160 @ 24 Hz / 3840 x 2160 @ 60 Hz</li> </ul> <p>Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™</p>
Multi-GPU Support	Supports NVIDIA® Quad-GPU SLI™ Technology

	Supports AMD 3-Way CrossFireX™ Technology
Expansion Slots	2 x PCIe 3.0/2.0 x16 (x16 or dual x8) 1 x PCIe 2.0 x16 (x4 mode) *1 3 x PCIe 2.0 x1 1 x mini-PCIe 2.0 x1 *2
Storage	<b>Intel® Z97 chipset :</b> 1 x SATA Express port, compatible with 2 x SATA 6.0 Gb/s ports 1 x M.2 Socket 3, , with M Key, type 2260 storage devices support (both SATA & PCIE mode) 4 x SATA 6Gb/s port(s), red Support Raid 0, 1, 5, 10 Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology *3 <b>ASMedia® SATA Express controller : *4</b> 1 x SATA Express port, compatible with 2 x SATA 6.0 Gb/s ports <b>ASMedia® ASM1061 controller : *4</b> 2 x SATA 6Gb/s port(s), red
LAN	Intel® I218V, 1 x Gigabit LAN Controller(s), featuring GAMEFIRST III Intel® LAN- Dual interconnect between the Integrated LAN controller and Physical Layer (PHY) Anti-surge LANGuard
Wireless Data Network	Wi-Fi 802.11a/b/g/n/ac Supports dual band frequency 2.4/5 GHz
Bluetooth	Bluetooth V4.0
Audio	ROG SupremeFX Formula 2014 8-Channel High Definition Audio CODEC *4 - Supports : Jack-detection, Multi-streaming - SupremeFX Shielding Technology - Cirrus Logic® CS4398 DAC: 120 dB SNR, -107 dB THD+N (Max. 192 kHz/ 24 -bit) - WIMA® film capacitors - ELNA® premium audio capacitors - TI LM4562 high-fidelity audio OP AMP(s) <b>Audio Feature :</b> - Blu-ray audio layer Content Protection - DTS Connect - Optical S/PDIF out port(s) at back panel

USB Ports	<ul style="list-style-type: none"> <li>- Sonic SoundStage</li> <li>- Sonic SenseAmp</li> <li>- Sonic Studio</li> <li>- Sonic Radar II</li> </ul> <p><b>Intel® Z97 chipset</b> : *5 6 x USB 3.0 port(s) (4 at back panel, blue, 2 at mid-board)</p> <p><b>Intel® Z97 chipset</b> : *6 6 x USB 2.0 port(s) (2 at back panel, black, 4 at mid-board)</p> <p><b>ASMedia® USB 3.0 controller</b> : 2 x USB 3.0 port(s) (2 at back panel, blue)</p>
ROG Exclusive Features	<p><b>CrossChill Copper (Hybrid air and liquid cooling)</b>*7</p> <p><b>ROG Armor (including top cover and SECC steel backplate)</b>*8</p> <p><b>mPCIe Combo III (mPCIe/M.2 combo card)</b></p> <p><b>ROG Connect</b> :</p> <ul style="list-style-type: none"> <li>- RC Diagram</li> <li>- RC Remote</li> <li>- RC Poster</li> </ul> <p><b>Extreme Engine Digi+ III</b> :</p> <ul style="list-style-type: none"> <li>- 8 + 2 phase power design</li> <li>- NexFET™ Power Block MOSFET</li> <li>- 60A BlackWing Chokes</li> <li>- 10K Black Metallic Capacitors</li> </ul> <p><b>Probelt</b></p> <p><b>KeyBot</b></p> <ul style="list-style-type: none"> <li>- CPU Level Up</li> <li>- XMP</li> <li>- Direct Key</li> </ul> <p><b>UEFI BIOS features</b> :</p> <ul style="list-style-type: none"> <li>- GPU.DIMM Post</li> <li>- Tweakers' Paradise</li> <li>- ROG SSD Secure Erase</li> <li>- Graphic Card Information Preview</li> </ul> <p><b>ROG RAMDisk</b></p> <p><b>GameFirst III</b></p> <p><b>Extreme Tweaker</b></p>
Special Features	<p><b>5-Way Optimization by Dual Intelligent Processors 5</b></p> <ul style="list-style-type: none"> <li>- Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ Power Control, Fan Xpert 3, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages.</li> </ul> <p><b>Gamer's Guardian:</b></p>

- ESD Guards on LAN, Audio, KBMS and USB3.0/2.0 ports
- DRAM Overcurrent Protection
- 10K Black Metallic Capacitors
- Stainless Steel Back I/O

**ASUS Wi-Fi GO!**

- Wi-Fi GO! Function: Cloud GO!, Remote Desktop, Remote Keyboard & Mouse, File Transfer
- Wi-Fi GO! & NFC Remote app for portable smartphone/tablet, supporting iOS 7 & Android 4.0 systems

**ASUS Exclusive Features :**

- MemOK!
- AI Suite 3
- Ai Charger+
- USB Charger+
- USB 3.0 Boost
- Disk Unlocker

**ASUS EZ DIY :**

- ASUS O.C. Profile
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS USB BIOS Flashback
- Push Notice

**ASUS Q-Design :**

- ASUS Q-Shield
- ASUS Q-Code
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM
- ASUS Q-Connector

**Overclocking Protection :**

- ASUS C.P.R.(CPU Parameter Recall)

**Media Streamer****Operating System Support** Windows® 8.1

Windows® 8

Windows® 7

**Back I/O Ports**

- 1 x PS/2 keyboard/mouse combo port(s)
- 1 x DisplayPort
- 1 x HDMI
- 1 x LAN (RJ45) port(s)
- 6 x USB 3.0 (blue)
- 2 x USB 2.0 (one port can be switched to ROG Connect)
- 1 x Optical S/PDIF out
- 6 x Audio jack(s)
- 1 x Clear CMOS button(s)
- 1 x ROG Connect On/ Off switch(es)

<b>Internal I/O Ports</b>	<p>1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s)  2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)  2 x SATA Express connector: red,  1 x TPM header  6 x SATA 6Gb/s connector(s)  1 x CPU Fan connector(s) (1 x 4 -pin)  1 x CPU OPT Fan connector(s) (1 x 4 -pin)  6 x Chassis Fan connector(s) (6 x 4 -pin)  1 x Thunderbolt header(s)  1 x 24-pin EATX Power connector(s)  1 x 8-pin ATX 12V Power connector(s)  1 x 4-pin ATX 12V Power connector(s)  1 x Front panel audio connector(s) (AAFP)  1 x System panel(s) (Q-Connector)  1 x MemOK! button(s)  10 x Probel Measurement Points  1 x Thermal sensor connector(s)  1 x Power-on button(s)  1 x Reset button(s)  1 x mPCIe Combo III connector(s)  1 x ROG extension (ROG_EXT) header(s)  1 x KeyBot Button  1 x Sonic SoundStage Button</p>
<b>Accessories</b>	<p>User's manual  I/O Shield  8 x SATA 6Gb/s cable(s)  1 x ASUS 2T2R dual band Wi-Fi moving antennas (Wi-Fi 802.11a/b/g/n/ac compliant)  1 x SLI bridge(s)  1 x Q-connector(s) (2 in 1)  1 x 12 in 1 ROG Cable Label(s)  1 x mPCIe Combo III card(s) with dual-band WiFi 802.11 a/b/g/n/ac + Bluetooth v4.0 module  1 x ROG Door Hanger(s)</p>
<b>BIOS</b>	<p>64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.8, ACPI 5.0, Multi-language BIOS</p>
<b>Manageability</b>	<p>WfM2.0, DMI2.7, WOL by PME, PXE</p>
<b>Support Disc</b>	<p>Drivers  ROG GameFirst III  ROG RAMDisk  ROG CPU-Z</p>

	ROG Mem TweakIt Kaspersky® Anti-Virus DAEMON Tools Pro Standard ASUS WebStorage HomeCloud ASUS Utilities
Form Factor	ATX Form Factor 12 inch x 9.6 inch ( 30.5 cm x 24.4 cm )
Note	<ol style="list-style-type: none"><li>1. The PCIe 2.0 x 16 slot (PCIEX4_3) shares bandwidth with SATAExpress_E1 connector. The default setting is in Auto mode that automatically optimizes the system bandwidth. If you install PCIe 2.0 x4 device, the system will automatically detect and disable SATAExpress_E1 connector.</li><li>2. The mPCIe slot is on mPCIe Combo III card and pre-installed with a Wi-Fi/Bluetooth module.</li><li>3. The functions support depends on the CPU types.</li><li>4. These SATA ports are for data hard drives only. ATAPI devices are not supported.</li><li>5. Support ASUS USB 3.0 Boost, UASP standard on the Intel native USB 3.0 is only supported under Windows® 8.1/8.</li><li>6. 2 x USB2.0 port at mid-board shares with ROG extension (ROG_EXT) port.</li><li>7. Supports G1/4" threaded fittings. Fittings require separate purchase.</li><li>8. Chassis must conform to ATX specification for successful installation: brass stand-offs of at least 6mm are required.</li></ol>

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