

RAMPAGE IV BLACK EDITION

Intel® Processors

Intel® Core™ i7 Processors for LGA 2011 Socket

Supports Intel® 22 nm CPU

Supports Intel® Turbo Boost Technology 2.0

* Refer to www.asus.com for CPU support list

• Chipset

Intel® X79

• Memory

8 x DIMM, Max. 64GB, DDR3 2800(O.C.)/2666(O.C.)/2400(O.C.)/2133(O.C.)/1866/1600/1333/1066 MHz Non-ECC, Un-buffered Memory

Quad Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

* 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® 4-Way SLI™ Technology

Supports AMD 4-Way CrossFireX Technology

• Expansion Slots

4 x PCIe 3.0/2.0 x16 (x16 or dual x16 or x16/x8/x16 or x16/x8/x8/x8, black) *¹

2 x PCIe 2.0 x1

• Storage

Intel® X79 chipset :

2 x SATA 6Gb/s port(s), gray

4 x SATA 3Gb/s port(s), black

Support Raid 0, 1, 5, 10

ASMedia® ASM1061 controller : *²

2 x eSATA 6Gb/s port(s), red

4 x SATA 6Gb/s port(s), gray

- LAN

Intel® 82579V, 1 x Gigabit LAN Controller(s)

- Bluetooth

Bluetooth V4.0

- Audio

ROG SupremeFX Black 8-Channel High Definition Audio CODEC

- Supports : Jack-detection, Multi-streaming
- SupremeFX Shielding Technology
- Cirrus Logic® CS4398 DAC: 120 dB SNR, -107 dB THD+N (Max. 192 kHz/ 24 -bit)
- TI 6120A2 high fidelity headphone amplifier
- WIMA® film capacitors
- ELNA® premium audio capacitors
- High-fidelity audio OP AMP(s)
- Differential circuit design
- NEC TOKIN UC2 audio relay

Audio Feature :

- Blu-ray audio layer Content Protection
- Sonic Radar
- DTS Connect
- Optical S/PDIF out port(s) at back panel

- USB Ports

ASMedia® USB 3.0 controller : *3

8 x USB 3.0 port(s) (6 at back panel, blue, 2 at mid-board)

Intel® X79 chipset : *4

10 x USB 2.0 port(s) (4 at back panel, black, 6 at mid-board)

- OC Panel

2.6 " LCM display

EXTREME/NORMAL mode switch

EXTREME Mode for subzero OC benching:*5

- VGA Hotwire
- Subzero Sense
- Slow Mode
- Pause Switch

- VGA SMB header
- Probelt
- 4 x 4-pin extra fan connectors

NORMAL Mode for in-chassis usage:*⁶

- CPU Level Up OC button
- FanSpeed control button
- LCM backlight on/off button

I/O Ports:

- POWER : 1 x SATA power connector
- ROG_EXT port : 1 x 18-1 pin data connection port

- **ROG Exclusive Features**

ROG Connect ^{*7}

- RC TweakIt
- RC Diagram
- RC Remote
- RC Poster

Extreme Engine Digi+ III :

- 8 -phase CPU power design
- 3 -phase VCCSA power design
- 2 + 2 phase DRAM power design
- NexFET™ Power Block MOSFET
- 60A Chokes
- 10K Black Metallic Capacitors

Mem TweakIt

ROG Extreme OC kit :

- Slow Mode
- LN2 Mode
- PCIe x16 Lane Switch
- EZ Plug

Probelt

UEFI BIOS features :

- ROG BIOS Print
- GPU.DIMM Post
- Tweakers' Paradise
- ROG SSD Secure Erase

ROG RAMDisk

GameFirst II

iROG

Extreme Tweaker

Loadline Calibration

Overclocking Protection :

- COP EX (Component Overheat Protection - EX)
- Voltiminder LED II
- ASUS C.P.R.(CPU Parameter Recall)

• Special Features

ASUS Dual Intelligent Processors 4 with 4-Way Optimization :

- The tuning key perfectly consolidates ASUS-exclusive DIGI+ Power Control, TPU, EPU, and Fan Xpert 2 optimize the digital power setting, system performance, power saving and whole system cooling configuration

CPU Level Up

ASUS Wi-Fi GO!

- Wi-Fi GO! Function: Media Streaming Hub, Smart Motion Control, Remote Desktop, Remote Keyboard & Mouse, File Transfer, Capture & Send
- Wi-Fi Engine for network sharing and connection: Client Mode, AP Mode
- Wi-Fi GO! & NFC Remote for portable Smartphone/Tablet, supporting iOS & Android systems

ASUS Exclusive Features :

- TurboV EVO
- USB BIOS Flashback
- MemOK!
- AI Suite 3
- Ai Charger+
- Onboard Button : Power/Reset/Clr CMOS (at back IO)
- Front Panel USB 3.0 Support
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- USB 3.0 Boost
- Disk Unlocker

ASUS Quiet Thermal Solution :

- ASUS Fan Xpert 2

ASUS EZ DIY :

- DirectKey
- ASUS O.C. Profile
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 2
- ASUS USB BIOS Flashback
- ASUS UEFI BIOS EZ Mode
- Multi-language BIOS

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 :

- COP EX (Component Overheat Protection - EX)
- Voltiminder LED II
- ASUS C.P.R.(CPU Parameter Recall)

- **Operating System Support**

Windows® 8.1

Windows® 8

Windows® 7

- **Back I/O Ports**

- 1 x PS/2 keyboard/mouse combo port(s)
- 2 x eSATA 6Gb/s
- 1 x LAN (RJ45) port(s)
- 6 x USB 3.0 (blue)
- 4 x USB 2.0 (one port can be switched to ROG Connect)
- 1 x Optical S/PDIF out
- 5 x Audio jack(s)
- 1 x Clear CMOS button(s)
- 1 x ROG Connect On/ Off switch(es)
- 1 x ASUS Wi-Fi GO! module (Wi-Fi 802.11 a/b/g/n/ac and Bluetooth v4.0/3.0+HS)

- **Internal I/O Ports**

- 1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s)
- 3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s)
- 1 x TPM header
- 6 x SATA 6Gb/s connector(s)
- 4 x SATA 3Gb/s connector(s)
- 1 x CPU Fan connector(s)
- 1 x CPU OPT Fan connector(s)
- 3 x Chassis Fan connector(s)
- 3 x Optional Fan connector(s)
- 1 x S/PDIF out 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 Chassis Intrusion connector(s)
- 1 x DirectKey Button(s)

1 x DRCT header(s)
1 x MemOK! button(s)
1 x Slow Mode switch(es)
11 x Probelts Measurement Points
3 x Thermal sensor connector(s)
1 x LN2 Mode header(s)
1 x EZ Plug connector(s) (4-pin Molex power connector)
1 x Power-on button(s)
1 x Reset button(s)
1 x BIOS Switch button(s)
1 x ROG extension (ROG_EXT) header(s)

• Accessories

User's manual
I/O Shield
4 x SATA 3Gb/s cable(s)
6 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 3-Way SLI bridge(s)
1 x 4-Way SLI bridge(s)
1 x SLI bridge(s)
1 x CrossFire cable(s)
1 x Q-connector(s) (2 in 1)
1 x ROG Connect cable(s)
1 x 12 in 1 ROG Cable Label(s)
1 x X-Socket pad(s)
1 x ROG Magnet
OC Panel Kit:
- 1 x OC Panel(s)
- 1 x OC Panel 5.25-inch bay metal case
- 1 x OC Panel Cable(s)

• BIOS

2 x 64Mb UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI5.0a, Multi-Language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified log, F12 PrintScreen, F3 Shortcut functions, and ASUS DRAM SPD (Serial Presence Detect) memory information

• Manageability

WfM2.0, DMI2.7, WOL by PME, PXE

- **Support Disc**

Drivers
ROG RAMDisk
ROG CPU-Z
ROG Mem TweakIt
Kaspersky® Anti-Virus
DAEMON Tools Pro Standard
ASUS WebStorage
ASUS Utilities

- **Form Factor**

Extended ATX Form Factor
12 inch x 10.7 inch (30.5 cm x 27.2 cm)

- **Note**

- *1. This motherboard is ready to support PCIe 3.0 SPEC. Functions will be available when using PCIe 3.0-compliant devices. Please refer to www.asus.com for updated details.
- *2. These SATA ports are for data hard drives only. ATAPI devices are not supported.
- *3. Support ASUS USB 3.0 Boost.
- *4. 2 x USB2.0 ports at mid-board shares with ROG extension (ROG_EXT) port.
- *5. Extreme Mode capabilities, including V1, V2, DRAM and other voltage definitions, vary by chipset. Please refer to your motherboard manual for details.
- *6. One 5.25" drive bay is required for NORMAL Mode installation.
- *7. ROG Connect port locates on the upper USB 2.0 port of the 2 x USB 2.0 + 2 x USB 3.0 module