

- CPU

Intel® Socket 2011-v3 Core™ i7 X-Series Processors

Supports Intel® Turbo Boost Technology 3.0

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

Supports Intel® 14 nm CPU

- Chipset

Intel® X99

- Memory

8 x DIMM, Max. 128GB, DDR4

3333(O.C.)/3300(O.C.)/2666(O.C.)/2133(O.C.)/2800(O.C.)/3200(O.C.)/3000(O.C.)/2400

(O.C.) MHz Non-ECC, Un-buffered Memory

Supports Intel® Extreme Memory Profile (XMP)

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

* Hyper DIMM support is subject to the physical characteristics of individual CPUs.

Quad Channel Memory Architecture

- Multi-GPU Support

Supports AMD 2-Way CrossFireX Technology

Supports NVIDIA® 3-Way SLI™ Technology

Supports NVIDIA® 4-Way SLI™ Technology *¹

Supports NVIDIA® 2-Way SLI™ Technology

Supports AMD 4-Way CrossFireX Technology *¹

Supports AMD 3-Way CrossFireX™ Technology

- Expansion Slots

4 x PCIe 3.0/2.0 x16 (x16, x16/x16, x16/x8/x8, x16/x8/x8/x8 or x8/x8/x8/x8 mode with 40-LANE CPU; x16, x16/x8 or x8/x8/x8 mode with 28-LANE CPU) *²

1 x PCIe 2.0 x4 *³

1 x PCIe 2.0 x1

- Storage

Supports Intel® Smart Response Technology*⁵

Support Raid 5, 0, 10, 1

Intel® X99 chipset :

10 x SATA 6Gb/s port(s),

1 x M.2 Socket 3, with M Key, type 2260/2280/22110 storage devices support (Supports PCIE SSDs only)*⁴

New Intel® Core™ i7 X-Series Processors :

1 x U.2 port, support PCIe 3.0 x4 NVMe Express storage*4

- LAN

Intel® I218V, 1 x Gigabit LAN Controller(s)

1 x Gigabit LAN Controller(s), Intel® I211-AT

Dual Gigabit LAN controllers- 802.3az Energy Efficient Ethernet (EEE) appliance

ROG GameFirst Technology

Anti-surge LANGuard

- Wireless Data Network

Support ASUS Wi-Fi Go! Utility

Wi-Fi 802.11 a/b/g/n/ac

Up to 1300Mbps transfer speed

Supports dual band frequency 2.4/5 GHz

- Bluetooth

Bluetooth V4.0

- Audio

- Supports : Jack-detection, Front Panel Jack-retasking, Multi-streaming

Audio Feature :

- Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity

- Optical S/PDIF out port(s) at back panel

- Sonic Studio II

- DTS Connect

- SupremeFX Shielding™ Technology

- Sonic Radar II

- Audio amplifier: Provides the highest-quality sound for headphone and speakers

ROG SupremeFX 8-Channel High Definition Audio CODEC

- USB Ports

ASMedia® USB 3.1 Gen 2 controller :

2 x USB 3.1 port(s) (2 at back panel, black, USB Type-C™)

ASMedia® USB 3.1 Gen 2 controller : *3

2 x USB 3.1 port(s) (2 at back panel, red, Type-A)

Intel® X99 chipset : *3

4 x USB 3.0 port(s) (4 at mid-board)

ASMedia® USB 3.1 Gen 1 controller :

4 x USB 3.0 port(s) (4 at back panel, blue)

Intel® X99 chipset : *6

6 x USB 2.0 port(s) (4 at mid-board, 2 at back panel, black)

- ROG Exclusive Features

ROG RAMDisk

ROG Extreme OC kit :

- Start button
- Slow Mode
- ReTry button
- Safe Boot button
- Reset button
- PCIe x16 Lane Switch
- LN2 Mode

1 x **DRAM channel switch**

ROG RAMCache

ProbeIt

KeyBot II

- ClrCMOS
- Power On
- DirectKey
- X.M.P.
- One-click Overclocking

Extreme Tweaker

UEFI BIOS features :

- Graphic Card Information Preview
- Tweakers' Paradise
- GPU.DIMM Post
- ROG SSD Secure Erase
- O.C. Profile

Extreme Engine Digi+ :

- 10K Black Metallic Capacitors
- IR3555 PoweIRstage®
- MicroFine Alloy Chokes

ROG Aura

- Aura RGB Strip Headers
- Aura Lighting Control

- Special Features

5-Way Optimization by Dual Intelligent Processors 5

- 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 4, and Turbo Core App

ASUS EZ DIY :

- ASUS EZ Flash 3
- ASUS USB BIOS Flashback

- ASUS CrashFree BIOS
- Multi-language BIOS
- Push Notice
- ASUS UEFI BIOS EZ Mode

ASUS Q-Design :

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

ASUS Wi-Fi GO!

- Wi-Fi GO! Function: Cloud GO!, Remote Desktop, Remote Keyboard & Mouse, File Transfer

Remote Entertainment

- Media Streamer
- HyStream

Overclocking Protection :

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

ASUS Quiet Thermal Solution :

- ASUS Fan Xpert 4

Turbo App

ASUS Exclusive Features :

- MemOK!
- AI Suite 3
- USB 3.1 Boost
- Ai Charger+
- Anti-Surge

- Operating System Support

Windows® 10 , 64bit

Windows® 7 , 32bit/64bit

Windows® 8.1 , 32bit/64bit

- Back I/O Ports

3 x Wi-Fi antenna port(s)

2 x USB 3.1 Gen 2 (red)Type-A

1 x Clear CMOS button(s)

2 x USB 2.0 (one port can be switched to USB BIOS Flashback)

1 x USB BIOS Flashback Button(s)

2 x USB 3.1 Gen 2 (black)USB Type-C™

5 x Audio jack(s)

2 x LAN (RJ45) port(s)

4 x USB 3.1 Gen 1 (blue)

1 x PS/2 keyboard/mouse combo port(s)

1 x Optical S/PDIF out

- Internal I/O Ports

- 1 x CPU Fan connector(s)
- 1 x EZ Plug connector(s) (4-pin Molex power connector)
- 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
- 1 x Thermal sensor connector(s)
- 1 x BIOS Switch button(s)
- 1 x M.2 Socket 3 for M Key, type 2260/2280/22110 storage devices support (Support PCIE SSD only)
- 1 x 24-pin EATX Power connector(s)
- 1 x U.2 connector
- 1 x PCIe x16 lane switch
- 1 x DRAM channel switch
- 3 x Chassis Fan connector(s)
- 9 x ProbeIt Measurement Points
- 1 x Slow Mode switch(es)
- 1 x TPM header
- 1 x Aura RGB Strip Header
- 1 x Water Pump header (4-pin)
- 2 x USB 3.1 Gen 1 connector(s) support(s) additional 4 USB 3.1 Gen 1 port(s)
- 1 x Safe Boot button
- 1 x 5-pin EXT_FAN(Extension Fan) connector
- 1 x 8-pin ATX 12V Power connector(s)
- 1 x Power Fan connector(s)
- 1 x LN2 Mode jumper(s)
- 1 x SLI/CFX switch (2/3-WAY adjustments)
- 1 x ReTry button
- 1 x CPU OPT Fan connector(s)
- 1 x ROG extension (ROG_EXT) header(s)
- 1 x Front panel audio connector(s) (AAFP)
- 1 x Thunderbolt header(s)
- 1 x Reset button(s)
- 1 x 4-pin ATX 12V Power connector(s)
- 1 x Power-on button(s)
- 10 x SATA 6Gb/s connector(s)
- 1 x System panel connector
- 1 x MemOK! button(s)

- Accessories

SupremeFX Hi-Fi Kit:

- 1 x SupremeFX Hi-Fi
- 1 x SupremeFX Hi-Fi cable
- 1 x 2-Way SLI bridge(s)
- 1 x Extension Cable for RGB strips (80 cm)
- 2 x CPU installation tool

1 x I/O frame
1 x 12 in 1 ROG Cable Label(s)
1 x ASUS 3T3R dual band Wi-Fi moving antennas (Wi-Fi 802.11a/b/g/n/ac compliant)
10 x SATA power cable
User's manual
1 x 3-Way SLI bridge(s)
2 x ROG coaster(s)
1 x 4-Way SLI bridge(s)
1 x USB drive with utilities and drivers
1 x M.2 Screw Package
1 x 5-pin to 5-pin cable
1 x Fan Extension Card (3 x 4-pin fan out)
3 x Thermistor cable(s)
ROG Fan Label
1 x Fan Extension card screw pack
1 x Q-connector(s) (1 in 1)

- BIOS

128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM2.0, SM BIOS 3.0, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information.

- Manageability

WfM 2.0, WOL by PME, PXE

- Form Factor

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

- Note

*1 28-LANE CPUs can only support up to 3-Way SLI™/ 3-Way CrossFireX™

*2 The PCIe8_4 slot shares bandwidth with M.2 and U.2.

*3 The PCIe4_1 slot shares bandwidth with front USB3_34 ports and back USB3.1_EC1_EA2 ports. If a X2 device is connected to the PCIe4_1 slot, the front USB3_34 ports will be disabled. If a X4 or higher device is connected to the PCIe4_1 slot, both front USB3_34 and back USB3.1_EC1_EA2 ports will be disabled.

*4 These ports share bandwidth with PCIe8_4 slot.

*5 These functions will work depending on the CPU installed.

*6 2 x USB2.0 port at mid-board shares with ROG extension (ROG_EXT) port.

- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
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