

The world's first 3D-printing-friendly motherboard with patent-pending mounting design

- LGA1151 socket for 6th-generation Intel® Core™ i7 / Core i5 / Core i3, Pentium® and Celeron® processors
- Dual DDR4 3466 (OC) support
- True gaming aesthetics: 3D-printing friendly and Aura RGB lighting
- Easy and stable overclocking: Pro Clock technology, 5-Way Optimization and 2nd-generation T-Topology
- SupremeFX: Flawless audio that makes you part of the game
- Sonic Radar II: Scan and detect your enemies to dominate
- Top-speed protected networking: Intel Gigabit Ethernet, LANGuard and GameFirst IV
- RAMCache: Speed up your game loads
- Ultra-speedy transfers for faster gaming: USB 3.1 Type-A/C & M.2
- Gamer's Guardian: SafeSlot, highly-durable components and smart DIY features

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CPU

Intel® Socket 1151 for 6th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors
 Supports Intel® 14 nm CPU
 Supports Intel® Turbo Boost Technology 2.0
 * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
 * Refer to www.asus.com for CPU support list

Chipset

Intel® Z170

Memory

4 x DIMM, Max. 64GB, DDR4 3466(O.C.)/3400(O.C.)/3333(O.C.)/3200(O.C.)/3100(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666(O.C.)/2600(O.C.)/2400(O.C.)/2133 MHz Non-ECC, Un-buffered Memory
 Dual Channel Memory Architecture
 Supports Intel® Extreme Memory Profile (XMP)
 * Hyper DIMM support is subject to the physical characteristics of individual

	CPUs. * Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).
Graphic	Integrated Graphics Processor- Intel® HD Graphics support Multi-VGA output support : HDMI/DVI/DVI-D/DisplayPort ports - Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz - Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz - Supports RGB with max. resolution 1920 x 1200 @ 60 Hz - Supports DisplayPort with max. resolution 4096 x 2304 @ 60 Hz Maximum shared memory of 1024 MB Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™
Multi-GPU Support	Supports NVIDIA® Quad-GPU SLI™ Technology Supports NVIDIA® 2-Way SLI™ Technology Supports AMD Quad-GPU CrossFireX™ Technology Supports AMD 3-Way CrossFireX™ Technology
Expansion Slots	2 x PCIe 3.0/2.0 x16 (Single at x16, dual at x8/x8) 1 x PCIe 3.0/2.0 x16 (max at x4 mode) 3 x PCIe 3.0/2.0 x1
Storage	Intel® Z170 chipset : 1 x M.2 Socket 3, with M Key, type 2242/2260/2280/22110 storage devices support (both SATA & PCIe mode)*1 6 x SATA 6Gb/s port(s), Support Raid 0, 1, 5, 10 Intel® Rapid Storage Technology supports Supports Intel® Smart Response Technology*2
LAN	Intel® I219V, 1 x Gigabit LAN Controller(s), featuring GAMEFIRST IV Anti-surge LANGuard
Audio	SupremeFX 8-Channel High Definition Audio CODEC - Supports : Jack-detection, Multi-recording, Front Panel Jack-retasking - High quality 115 dB SNR stereo playback output Audio Feature : - SupremeFX Shielding™ Technology - Optical S/PDIF out port(s) at back panel - Sonic Radar II
USB Ports	ASMedia® USB 3.1 controller : 1 x USB 3.1 port(s) (1 at back panel, red, Type-A) ASMedia® USB 3.1 controller : 1 x USB 3.1 port(s) (1 at back panel, , Type-C, Reversible) Intel® Z170 chipset : 6 x USB 3.0/2.0 port(s) (4 at back panel, blue, 2 at mid-board) Intel® Z170 chipset : 8 x USB 2.0/1.1 port(s) (2 at back panel, black, 6 at mid-board)
Special Features	ASUS Dual Intelligent Processors 5-Way Optimization by Dual Intelligent Processors 5 : - 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 3, and Turbo App Gamer's Guardian: - ESD Guards on LAN, Audio, KBMS and USB3.0/2.0 ports - DRAM Overcurrent Protection - Stainless Steel Back I/O - Highly Durable Components - DIGI+ VRM ASUS TPU : - Auto Tuning - TurboV - GPU Boost ASUS EPU : - EPU

ASUS Exclusive Features :

- AI Suite 3
- Ai Charger+
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- USB 3.1 Boost
- Disk Unlocker

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution
- ASUS Fan Xpert 3

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode
- Push Notice

ASUS Q-Design :

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

Gaming Aesthetics :

- 3D printing friendly
- AURA-RGB Lighting

Media Streamer**RAMCache****Operating System Support**Windows® 10 , 64bit

Windows® 8.1 , 64bit

Windows® 7 , 32bit/64bit

Back I/O Ports

- 1 x PS/2 keyboard/mouse combo port(s)
- 1 x DVI
- 1 x D-Sub
- 1 x DisplayPort
- 1 x HDMI
- 1 x LAN (RJ45) port(s)
- 1 x USB 3.1 (red)Type-A
- 1 x USB 3.1 Type-C
- 4 x USB 3.0
- 2 x USB 2.0
- 1 x Optical S/PDIF out
- 5 x Audio jack(s)

Internal I/O Ports

- 1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin)
- 3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s)
- 1 x M.2 Socket 3 with M Key design, type 2242/2260/2280/22110 storage devices support (Supports both SATA & PCIe SSD)
- 1 x COM port(s) connector(s)
- 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)
- 3 x Chassis Fan connector(s) (3 x 4 -pin)
- 1 x 24-pin EATX Power connector(s)
- 1 x 8-pin ATX 12V Power connector(s)
- 1 x Front panel audio connector(s) (AAFP)
- 1 x System panel(s)
- 1 x Thermal sensor connector(s)
- 1 x CPU OV
- 1 x Clear CMOS jumper(s)
- 1 x 5-pin EXT_FAN(Extension Fan) connector
- 1 x ROG extension (ROG_EXT) header(s)
- 1 x 14-1 pin TPM connector

Accessories

- User's manual
- I/O Shield
- 4 x SATA 6Gb/s cable(s)
- 1 x M.2 Screw Package
- 1 x pack of cable tie
- 1 x CPU installation tool
- 1 x Supporting DVD

	1 x SLI bridge(s) 1 x 12 in 1 Cable Label (s) 1 x 3D printing mount package
BIOS	128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, 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, DMI 3.0, WOL by PME, PXE
Support Disc	Drivers ASUS Utilities ASUS EZ Update Anti-virus software (OEM version)
Form Factor	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm)
Note	*1:When the M.2 Socket 3 is operating in SATA mode, SATA port 1 will be disabled. *2:These functions will work depending on the CPU installed.