Note: The specification	Z170-A ns are subject to change without notice.
	LGA1151 socket for 6th Generation Intel <sup>®</sup> Core™ i7/ i5/ i3/Pentium <sup>®</sup> /Celeron <sup>®</sup> Processors
CPU	Supports 14nm CPU
	Supports Intel <sup>®</sup> Turbo Boost Technology 2.0*
	* The Intel <sup>®</sup> Turbo Boost Technology 2.0 support depends on the CPU types.
Chipset	Intel <sup>®</sup> Z170 Express Chipset
•	4 x DIMM, max. 64GB, DDR4
	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(
M	O.C.)*/2133 MHz, non-ECC, un-buffered memory
Memory	Dual channel memory architecture Supports Intel <sup>®</sup> Extreme Memory Profile (XMP)
	* Hyper DIMM support is subject to the physical characteristics of individual CPUs. Please refer to Memory QVL(Qualified
	Vendors List) for details.
	2 x PCI Express 3.0/2.0 x16 slots (single at x16 or dual at x8/x8 mode)
	1 x PCI Express 3.0/2.0 x16 slot* (max. at x4 mode, compatible with PCIe x1 and x4 devices)
Expansion Slots	3 x PCI Express 3.0/2.0 x1 slots
•	1 x PCI slot
	*The PCIe x16_3 slot shares bandwidth with SATA6G_56. The PCIe x16_3 is default set at x2 mode.
	Integrated Graphics Processor- Intel <sup>®</sup> HD Graphics support
	Multi-VGA output support: DisplayPort/HDMI/DVI-D/VGA ports
	Supports DisplayPort 1.2* with max. resolution 4096 x 2304@60HZ/24HZ
	Supports HDMI 1.4b with max. resolution 4096 x 2160@24Hz / 2560 x 1600@60Hz
	Supports DVI-D with max. resolution 1920 x 1200@60Hz
VGA	Supports RGB with max. resolution 1920 x 1200@60Hz
	Supports Intel <sup>®</sup> InTru™ 3D/Quick Sync Video/Clear Video HD Technology/Insider™
	Supports up to 3 displays simultaneously
	Maximum shared memory of 512MB
	*DP 1.2 Multi-Stream Transport compliant, supports DP 1.2 monitor daisy chain up to 3 displays
	Supports NVIDIA <sup>®</sup> 2-Way/Quad-GPU SLI <sup>™</sup> Technology (with 2 PCIex16 graphics card)
Multi-GPU support	Supports AMD <sup>®</sup> 3-Way/Quad-GPU CrossFireX <sup>™</sup> Technology
	Intel <sup>®</sup> Z170 Express Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology 14 support
	- 1 x SATA Express port (compatible with 2 x SATA 6.0 Gb/s ports)
	- 6 x SATA 6.0 Gb/s ports(gray, 2 from SATA Express)
Storage	- Supports Intel <sup>®</sup> Smart Response Technology*
	- 1 x M.2 Socket 3 with M Key**, type 2242/2260/2280/22110 storage devices support (both SATA & PCIE mode)***
	* These functions will work depending on the CPU installed. ** Supports PCIE RAID configurations via onboard M.2 and PCIex16_3.
	*** M.2 shares SATA mode with SATA Express. Change this item before installing M.2 SATA devices.
	Gigabit Intel LAN connection- 802.3az Energy Efficient Ethernet (EEE) appliance
LAN	Intel <sup>®</sup> I219-V Gigabit LAN- Dual interconnect between the integrated Media Access Controller (MAC) and physical layer
	ASUS LAN Guard
	ASUS Turbo LAN Utility
	Realtek® ALC892 8-channel high definition audio CODEC featuring Crystal Sound 3
	- Power pre-regulator reduces power input noise to ensure consistent performance     - Separate layer for left and right track, ensuring both sound deliver equal quality
	- Top notch audio sensation delivers according to the audio configuration
	- Audio shielding ensures precise analog/digital separation and greatly reduced multi-lateral interference
	- EMI protection cover to prevent electrical noise to affect the amplifier quality
Audio	- Audio Amplifier to enhance the highest quality sound for headphone and speakers
	<ul> <li>- Unique de-pop circuit to reduce start-up popping noise to audio outputs</li> <li>- Premium Japan-made audio capacitors provides warm, natural, and immersive sound with exceptional clarity and</li> </ul>
	- Absolute Bitch 102kbz/2/bit true BD lossloss sound
	- DTS <sup>®</sup> Studio Sound <sup>TM</sup>
	- DTS® Connect
	- Supports jack-detection, multi-streaming, front panel jack-retasking (MIC)
	- Optical S/PDIF out port at back I/O
USB	Intel <sup>®</sup> Z170 Express Chipset- supports ASUS USB 3.1 Boost
	Intel <sup>®</sup> Z170 Express Chipset- supports ASUS USB 3.1 Boost - 6 x USB 3.0/2.0 ports (4 ports at mid-board, 2 ports at back panel, blue) - 6 x USB 2.0/1 1 ports (4 ports at mid-board, 2 ports at back panel)
	ASMedia <sup>®</sup> USB 3.1 controllers- supports ASUS USB 3.1 Boost and 3A power output
	- 1 x USB 3.1/3.0/2.0 port at back panel (teal blue, Type-A) - 1 x USB 3.1/3.0/2.0 port at back panel (Type-C)
	<pre>&lt;1 x USB 3.1/3.0/2.0 port at back panel (Type-C) </pre> <superb performance=""></superb>
	OC Design - ASUS PRO Clock Technology
	- Full BCLK range for extreme overclocking performance

	5 Way Ontimization
	5-Way Optimization - Whole system optimization with a single click! Perfectly consolidates better CPU performance, power saving, digital
	power control, system cooling and app usages.
	DIGI+ VRM
	-CPU Power: Digital 8-phase power design
	-IGPU Power: Digital 2-phase power design
	TPU     - Auto Tuning, TPU, GPU Boost, 2-level TPU switch
	EPU
	- EPU
	Fan Xpert 3 featuring Fan Auto Tuning function and multiple thermistors selection for optimized system cooling
	Turbo App featuring system performance tuning, network priority, and audio scene configuration for selected
	applications.
	UEFI BIOS
	- Most advanced options with fast response time Special Memory O.C. Design
	<ul> <li>Superb memory O.C. capability under full load by minimizing the coupling noise and signal reflection effect</li> </ul>
	PC Cleaner
	- Fast and easy way to get rid of unnecessary junk files.
	<remote entertainment=""></remote>
	Remote GO!
ASUS Exclusive	- Remote GO! Function: Cloud GO!, Remote Desktop, Remote Keyboard & Mouse, File Transfer
Features	- Wi-Fi GO! & NFC Remote app for portable smartphone/tablet, supporting iOS 7 & Android 4.0 systems Media Streamer
	- Pipe music or movies from your PC to a smart TV, your entertainment goes wherever you go!
	- Media Streamer app for portable smartphone/tablet, supporting iOS 7 & Android 4.0 systems
	HyStream
	- Stream iOS devices' screen on your PC screen.*
	* Contact your device vendor for supporting information.
	<esports champions=""></esports>
	- Fast and smooth online gaming with lower pings and less lags Crystal Sound 3
	- Hear the cleanest sound with dedicated audio design onboard!
	- Tailored app performance, network priority and audio configuration for your needs
	<ez diy=""></ez>
	Push Notice
	Monitor your PC status with smart devices in real time
	USB BIOS Flashback Card supported UEFI BIOS EZ Mode featuring friendly graphics user interface
	- CrashFree BIOS 3
	- EZ Flash 3
	ASUS Q-Design
	- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
	- ASUS Q-Slot
	- ASUS Q-DIMM
	- ASUS Q-Connector
	Special Features:
	- ASUS DIGI+ VRM - 8 Phase digital power design
	- ASUS Enhanced DRAM Overcurrent Protection - Short circuit damage prevention
	- ASUS ESD Guarde - Enhanced ESD protection
	- ASUS High-Quality 5K-Hour Solid Capacitors - 2.5x long lifespan with excellent durability
ASUS Special	- ASUS Stainless Steel Back I/O - 3x more durable corrosion-resistant coating
Features	- Mobo Connect
	- LAN Guard
	- USB 3.1 Boost
	- Ai Charger+
	- Al Suite 3 - MemOK!
	- EZ XMP
	Quiet Thermal Design:
ASUS Quiet Thermal	- ASUS Fan Xpert 3
Solution	- ASUS Fanless Design: Heat-sink solution
	Precision Tweaker 2:
	- CPU Core/Cache Voltage: Adjustable CPU Core/Cache Voltage at 0.005V increment
ASUS Exclusive	- CPU Graphics Voltage: Adjustable CPU Graphics voltage at 0.005V increment
	- CPU VCCIO Voltage: Adjustable CPU VCCIO Voltage at 0.0125V increment
	- CPU System Agent Voltage: Adjustable CPU System Agent Voltage at 0.0125V increment
Overclocking	- DRAM Voltage: 152-step Memory voltage control

Features	- PCH Core Voltage: 88-step Chipset voltage control
	SFS (Stepless Frequency Selection)
	- BCLK/PCIE frequency tuning from 40MHz up to 500MHz at 0.01MHz increment
	Overclocking Protection:
	- ASUS C.P.R.(CPU Parameter Recall)
Back Panel I/O Ports	1 x PS/2 Keyboard/mouse combo port
	1 x DisplayPort
	1 x HDMI port
	1 x DVI-D
	1 x RGB
	1 x Optical S/PDIF out
	1 x Intel LAN (RJ45) port
	1 x USB 3.1/3.0/2.0 ports (teal blue, Type A)
	1 x USB 3.1/3.0/2.0 ports (Type C)
	2 x USB 3.0/2.0 ports (blue)
	2 x USB 2.0 ports
	8-channel Audio I/O ports

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	2 x USB 3.0/2.0 connectors support additional 4 USB ports (19-pin)
	2 x USB 2.0/1/1 connectors support additional 4 USB ports
	1 x M.2 Socket 3 (for M Key, type 2242/2260/2280/22110 storage devices)
	1 x SATA Express connectors (gray)
	4 x SATA 6.0Gb/s connectors (gray)
	1 x CPU Fan connector (4-pin) for both 3-pin(DC mode) and 4-pin(PWM mode) CPU coolers control with auto detection
	1 x CPU OPT Fan connector (4-pin)
	1 x Water Pump header (4-pin)
	4 x Chassis Fan connectors (4-pin) for both 3-pin(DC mode) and 4-pin(PWM mode) coolers control
	1 x Front panel audio connector (AAFP)
	1 x BIOS Flashback connector
Internal I/O	1 x S/PDIF out header
Connectors	1 x Thunderbolt header (5-pin) for ASUS ThunderboltEX series support
Connectors	1 x TPM connector
	1 x COM port
	1 x 24-pin EATX Power connector
	1 x 8-pin EATX 12V Power connector
	1 x System Panel(Q-Connector)
	1 x MemOK! button
	1 x Clear CMOS jumper
	1 x DRCT(Direct Key) connector
	1 x TPU switch (advanced two-stage adjustments)
	1 x EZ XMP switch
	1 x Power-on button
	1 x 5-pin EXT_FAN(Extension Fan) connector
	128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, WfM2.0, SM BIOS 3.0, ACPI 5.0, Multi-language BIOS,
BIOS	ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last
	Modified log,
Manageability	WfM 2.0, DMI 3.0, WOL by PME, PXE
	3 x Serial ATA 6.0Gb/s cables
	1 x ASUS SLI bridge connector
	1 x Q-connector
Accessories	1 x M.2 screw package
	1 x CPU installation tool
	1 x User's manual
	1 x Z170 Series Exclusive Feature manual
Support DVD	Drivers
	ASUS Utilities
	EZ Update
	Anti-virus software (OEM version)
Operating System Support	Windows <sup>®</sup> 10*
	Windows <sup>®</sup> 8.1*
	Windows <sup>®</sup> 7
	*64-bit supported only
Form Factor	ATX Form Factor, 12"x 9.6" (30.5cm x 24.4cm)